Ally D. I.R.

AMERICAN

RAILROAD JOURNAL.

Plans and Estimates given for IRON ROOFS to be erected in any part of the UNITED STATES.

INSURANCE, BANKING, MINING, MANUFACTURES.

HENRY V. POOR, Editor.

SATURDAY, JULY 30, 1859.

Second Quarto Series, Vol. XV., No. 31 .-- Whole No. 1,215, Vol. XXXII.

ESTABLISHED IN 1831.

NEW-YORK

PUBLISHED WEEKLY, BY

Pig Lead, Pig Iron, S.OO & TLUULTZ'& CO. Banca and Str

Tin. Jagot Copper, Breef but I works, and other Watals.

No. 9 Spruce Street.

Tos. 90 and 92 Beeksten et NEW WAR

ROOFING.

FLOORING OF RAILWAY BRIDGES, ETC.

GALVANIZED SHEET IRON,

CORRUGATED OR PLAIN;

ORDINARY SHEET IRON PREPARED IN THE SAME WAY.

Plans and Estimates given for IRON ROOFS to be erected in any part of the UNITED STATES.

Cornices, Gutters, Ridge Caps, Leaders, Spouts, etc.



CORRUGATED IRON BUILDING COMPLETE.

FOR CORRUGATED IRON ROOFS we refer to Buildings in the New York Navy Yard, the New Depot of the New Jersey Railroad and Transportation Company at Jersey City, Capitol Extension at Washington, U. S. Custom Houses, etc., in various parts of the UNITED STATES.

The subscribers have constantly on hand and for sale

Galvanized RAILROAD SPIKES, Galvanized SHIP SPIKES, Galvanized SLATING NAILS, Galvanized LIGHTNING RODS, Galvanized HOOP IRON,
Galvanized CUT and WROUGHT NAILS,
Galvanized WIRE,
Galvanized SCREWS,
Galvanized SCREWS,
Galvanized SCREWS,

Galvanized SHEATHING NAILS, Galvanized RIVETS, Galvanized SHEET IRON, of all Widths and Gauges.

CORRUGATED SHEET IRON FOR ROOFING.
PLUMBERS AND STEAMFITTERS' BRASS WORK.

SHOT, PIPE AND SHEET LEAD.

Pig Lead, Pig Iron, Sheet Iron, Tin Plates, Spelter, Banca and Str Tin. Ingot Copper, Braziers' Sheets, and other Metals.

Nos. 90 and 92 Beekman st., NEW YORK.

AMERICAN RAILROAD JOURNAL.

STEAM NAVIGATION, COMMERCE, FINANCE,

INSURANCE, BANKING, MINING, MANUFACTURES.

HENRY V. POOR, Editor.

ESTABLISHED IN 1831.

PUBLISHED WEEKLY BY J. H. SCHULTZ & CO., AT NO. 9 SPRUCE ST., NEW YORK, AT FIVE DOLLARS PER ANNUM.

SECOND QUARTO SERIES, VOL. XV., No. 31.]

SATURDAY, JULY 30, 1859.

[WHOLE No. 1,215, Vol. XXXII.

MESSES, ALGAR & STREET, No. 11 Clements Lane, Lombard Street, London, are the authorised European Agents for the Journal

PRINCIPAL CONTENTS.

Traffic of the Pittsb., Ft. Wayne and Chicago
Railroad
Chicago, Burlington and Quincy Railroad 48
Commerce of Canada48
Journal of Railroad Law
Baltimore and Ohio Railroad48
The United States Patent Office 48
Cambria Railroad Iron48
Louisville and Nashville Railroad48
Trade of San Francisco
Free Passes on the Erie Railroad
Running Roads by Contract
How Fast Rails Depreciate
Keokuk, Mt. Pleasant and Muscatine R. R 48
Ohio Central Railroad49
Wabash Valley Railroad 49

American Railroad Journal.

PUBLISHED BY J. H. SCHULTZ & CO. No. 9 SPRUCE ST.

New York, Saturday, July 30, 1859.

Traffic of the Pittsburg, Fort Wayne and Chicago Railroad.

There were transported over this road during the year ending December 31, 1858, 255,663 tons of freight, the revenue from which amounted to \$668,928 66. Of this amount of tonnage, there were transported eastward 143,572 tons, which yielded a revenue of \$343,777 49, of which 60,720 tons, yielding a revenue of \$132,656 69, was freight local to the road, and 82,852 tons, yielding a revenue of \$211,120 80, was through freight, emanating either from, or destined to points off the line of this road. of this road. The amount of freight transported westward was 142,091 tons, which yielded a revenue of \$323,151 17-ot which 61,096 tons, yielding a revenue of \$78,270 91, was local freight, and 80,995 tons, yielding a revenue of \$246,880 26, was through freight. Therefore, 366 tons more of local freight were moved westward than eastward, and 1,857 tons more through freight moved eastward than westward. Of the total tonnage, 1,481 tons more were moved eastward than westward.

Of the revenue from local freight, though 876 tons more were removed westward than eastward, the revenue from the eastward tonnage was \$54,-385 78 more than that from the westward tonnage; the tons moved one mile in the one case being 5,477,577, and in the other, 3,727,280—showing a difference of 1,750,297 tons moved one mile in favor of the westward freight.

excess in the tonnage was in favor of the eastward freight, by 1,857 tons, the revenue yielded was \$35,759 46 more from the westward than the eastward tonnage, the tons moved one mile westward being 13.218,724, and eastward 12,744,762-showing a difference of 473,962 tons moved one mile in favor of the westward freight.

Of the whole revenue from both kinds of freight, \$20,626 32 more was received from the eastward than from the westward freight, while the tonnage was also 1,481 tons greater, and the tons carried one mile exceeded those moved westward 1,276,-

The average revenue per ton per mile from the eastward local freight, was $02\frac{1}{4}$ cents, and from the same kind of freight westward, 021-10th cents per ton per mile; from the eastward through freight, 01 1-10th cents per ton per mile, and from the westward through freight, 017/8 cents per ton per mile; the revenue from the whole eastward freight being 01½ cents per ton per mile, from the whole westward freight a fraction less than 02 cents per ton per mile, and for the total tonnage, both eastward and westward, 01% cents per ton

Assuming the cost of moving this freight to have been one-half the gross expenses of operating and maintaining the road, (and it is believed the estimate is nearly correct, or sufficiently so for the purpose of comparison,) it will amount to \$465,-946 85, or $0\frac{1}{3}$ cent per ton per mile, leaving a profit to the company of \$202,981 81 on this branch of its business, or a fraction less than 6-10 cent per ton per mile.

The whole amount of tonnage transported during the year, compared with 1857, shows a decrease of 19,106 tons, although the revenue derived is increased \$11,242 59, exclusive of the earnings from express freight; the tons moved one mile being for 1858, 35,168,323, and for 1857, 28,893,960, showing an increase of 6,274,363 in the amount of tonnage moved one mile, the result fully demonstrating, that while a less amount of freight was transported during the past year than in 1857, the revenue produced was greater, in consequence of this less amount of freight, having been moved such a greater distance as more than equaled the loss in the tonnage.

Had there been, therefore, no decrease in the tonnage, and the revenue per ton remained the same, the earnings from freight would have been \$75,000 00 more than they now appear, or \$743,-600 00.

There were transported over the road during the year, 439,040 passengers, the revenue from which amounted to \$741,222 77. Of this number, there

Of the revenue from through freight, while the line, and 40,907, yielding a revenue of \$191,584 25, were from, or destined to, points foreign to this road.

> The number of passengers transported westward was 223,584, which produced a revenue of \$380,-613 97. Of this number, 174,367, yielding a reve nue of \$178,032 35, were local, and 49,217, yielding a revenue of \$202,581 62, were through passengers. There were, therefore, but 182 more local passengers transported eastward than westward, and 8,310 more through passengers transported westward than eastward, while of the total number, 8,128 more were transported westward than eastward.

Of the revenue from local passengers, while there were 182 more transported eastward than westward, the revenue from the westward passengers was \$9,007 80 more than that from the passengers traveling eastward; the number carried one mile being in the one case 5,869,768, and in the other 6,230,146, showing a difference of 360,-378 more miles traveled by the westward than eastward passengers.

Of the revenue from through passengers, \$10,-997 37 more were derived from those going west-ward than eastward, in part attributable to an increase of 8,310 in this class, but more especially to the fact, that the westward passengers traveled 1,288,777 more miles than those transported east-

Of the total revenue from passengers, \$20,005 17 more were received from the westward than the eastward passengers, while the number was 8,128 greater, and the number transported one mile exceeded those going eastward 1,649,155, showing not only that the preponderance of travel was westward, but that this larger number were transported comparatively a longer distance than those traveling eastward.

The average revenue from local passengers per mile traveled eastward was 02% cents, and westward 02% cents; from the through passengers eastward 02 4-10ths cents per mile traveled, and westward 02 2-10 cents; the revenue from the whole number of passengers going eastward being 02 6.10 cents per mile traveled, and westward 021/3 cents, and for the whole number of passengers eastward and westward a fraction over 021/2 cents per mile traveled.

Assuming, as in the case of the tonnage, that it cost one-half the gross expenses of operating and maintaining the road, or \$465,946 85 to transport these passengers, the result shows the cost per mile traveled to have been 01 6.10 cents, and the profit to the company \$275,875 92, or a trifle less than 01 cent per mile traveled.

A comparison of the passenger traffic of the past were transported eastward 215, 456, which produced year with that of 1857, shows a decrease of 89,228 a revenue of \$360,608 80, 174,549 of these, yielding a revenue of \$169,024 55, being local to the crease of 9,238,558 in the number carried one mile, and a decrease of \$198,107 98 (exclusive of | of the Chicago river; also, one-fourth interest in the sum received on account of extra baggage), in

the amount of revenue produced.

This large decrease in the passenger revenue, which prima facie would appear to be wholly the result of the decrease in the number of passengers transported, is truly in part attributable to the decrease in the average number of miles traveled by each passenger; for while in 1857 each passenger transported averaged a distance of seventy miles, those transported during 1858 averaged but sixtysix and two-thirds miles.

Viewing it as a whole, the business of the road for the past year compare favorably with that of 1857, while the restoration of business during the present year to somewhat more of its original vigor, together with the conducive effect which the completion of the road to Chicago will exert upon its revenue, will doubtless exhibit a satisfactory result to the shareholders at the close of 1859,

Green River Bridge.

This bridge is 984 feet long from abutment to abutment, and 115 feet high above the low water mark. It is divided into five spans, the two spans at the extremes being 180 feet long, and the three intervening 208 feet each from centre to centre of piers. The superstructure is entirely of cast iron, composed of two chords and joists supported by stone piers, and suspended between them by wrought iron suspensions. The system of suspension is under the bridge and composed of different sizes of iron. The main suspension, going from pier to pier, is composed of bars 4 inches by 11/4 inches. The second suspension, going from each pier to the centre post, is composed of bars 4½ inches by 1 inch. The third suspension, going from the centre post to half-way from the pier and then to the pier, is composed of bars 2 inches by % inch; and the fourth suspension is composed of bars 2 inches by ¾ inch. Above the superstructure, the floor-beams are fixed to receive the cross ties and rails. On each side of this track is a small side walk. This substantial bridge was designed by Albert Fink Esq., and made by Inman & Gault, of this city. It is like the bridge over the Monongahela, over which the trains of the Baltimore and Ohio road run daily at the rate of 40 miles per hour. With the exception of the Victoria bridge at Montreal, it is the longest structure of the kind in America, and we hesitate not to say that it will compare favorably with anything of the kind in the world for beauty and durability. The cars have gone over it a number of times, and its strength has been fully tested by heavy locomotives moving at a rapid rate .- Louisville Courier.

Chicago, Burlington and Quincy Railroad.

We have received the report of this company for the fiscal year ending April 30th, 1859. It is very full, and embraces, in addition to the report of the president and directors, statements from the superintendent, treasurer, freight agent, ticket agent, baggage agent, and purchasing agent and storekeeper-thus giving in detail the operations and business of the road for the year.

The road and appurtenances owned and occupied by the company, are as follows:

That part of the Galena and Chicago Union Railroad from Chicago to the Junction is occupied for the passage of our trains and business under a lease from that company, being in

tends to Galesburg, a distance of 138 The Peoria and Oquawka railroad from

Galesburg to Burlington is operated under a lease from that company, and is in length 42

Making a total length of line from Chi-

This company owns about twelve acres of depot grounds in the city of Chicago on the South Branch

the Union track, which connects the several railroads in Chicago, with some valuable lands, (netrack.) which are in part used for depot purposes by the several owners thereof. The passenger and a portion of the freight business, at Chicago, is transacted at the depot of the Illinois Central Railroad Company, under a lease or an agreement

with that company.

This company own large and ample depot grounds and the necessary station buildings, at East Burlington, which are used for the business

of the line.

The aggregate amount charged as cost of road, equipment and appendages remains the same as at the date of the Annual Report of last year, and is as follows:

For construction \$5,799,882 24 equipment 1,400,871 86 depot and grounds at East Burlingtondepot grounds at Chicago 33,362 71 201,260 20 Union track at Chicago

The amount of advances to Peoria and Oquawka R. R. Co. including bonds purchased under the agreement with that Co., is,\$484,158 49 onds of the Northern Cross, (now Quincy & Chicago) R. R. Co., purchased to facilitate the completion of said road, under agreem't of January 1, 1855 .. 100,000 00 Bonds of the same Co. purchased the past y'r under same agreem't, with subsequent

stipulations with the Trustees Quincy & Chicago R. R. Co.'s Bonds received for balance of old account, on settlement.

7,000 00 680,158 49

165,000

89,000 00

....\$7,468,925 92

Total amount of construction ace'ts. including advances to other roads,\$8,149,084 41

The capital stock of the company remains the same as at the date of the last report, \$4,631,540 Less 22 shares reported as held by the

Total stock \$4,629,340 The Funded Debt, May 1, 1859, was

as follows: Chicago & Aurora 1st mortg. 7 per cent. bonds, payable July 1, 1867,\$405,000 Chicago & Aurora 2d mortg.

7 per cent. bonds, payable Oct. 1, 1869\$303,000 Less bonds canceled by sinking fund ... 138,000

Centr. Military Tract 1st mortgage 7 per cent. bonds, pay-400,000 able July 1, 1864

Do. 2d mortgage 8 per cent. bonds, payable May 1, 1868 281,000 Do. 8 per cent. bonds of April 1, 1854, payable April 1, 68, Do. 8 per cent. bonds of March 1, 1856, payable March 1, '76,

Chicago, Burlington & Quiucy per cent. Consolidated bonds, payable January 1, 1883\$1,690,000 Less bonds canceled

30,000 by sinking fund.. -1,660,000 Total bonds

2,990,000

The funded debt has been reduced the past year, by the purchase and canceling of bonds for the sinking fund, to the amount of \$63,000. And, cessarily purchased in securing lands for that in the aggregate, to the present time, it has been track,) which are in part used for depot purposes reducd \$168,000. The preceding statements show an excess of investments for construction account and for advances for connecting roads, over capital stock and funded debt, amounting to \$529,-744 41.

The income for the year ending April 30th, 1859, embracing earnings on 138 miles of road owned by the company, and our portion of earnings upon the 30 miles of road leased of the Galena and Chicago Union Railroad Company, has

For transportation of freight.....\$689,737 53 " passengers 833,391 47
" mails & miscel. 21,444 63

Total earnings.....\$1,044,573 63 Balance to credit of interest and exchange account 52,983 04

Total income \$1,097,556 67 The expenditures chargeable to

Income Account, for the same time, have been, for-Operating expenses \$541,005 76 Interest on bonds 230,382 58 Taxes.... 21,312 02 Transfer office expenses 600 00 Rent of Peoria & Oquawka road, for 6 months ending April 30, 1858, unadjusted at date of 22,500 00 last report Excess of rent and oper-

ating expenses over earnings on Peoria & Oquawka road, for 12 months 28,380 87 Rent of Illinois Central depot 28,777 46

Balance of income for fiscal year \$224,597 97 Add balance of May 1, 1858 388,963 80

872,958 70

Total to May 1, 1859 \$613,561 77 Deducting from the above the amount charged to Improvement account, the past year 68,325 26

Leaves an actual surplus of \$545,236 51 If from this balance be taken the amount paid for 168 sinking fund bonds, purchased and canceled up to May 1, 1859, at a cost of 147,659 44

There will remain a net surplus of...\$397,577 07 The Treasurer's report shows that the amount of bills and accounts receivable, including the amount due from agents and connecting roads, The deposits in New York and Boston,\$103,009 65

and cash in the Treasury, are 84,062 12 Total of Cash Assets......\$187,071 77 The value of materials on hand for the

use of the operating department, is 141,366 16 Cost of boats for ferries at Burlington 20,479 32 and Quincy

Total Assets.....\$348,917 25 The amount of bills paya-

ble on the 1st of May, was\$296,459 54 Unclaimed dividends, ac-

counts, and pay-rolls.. 13,908 12 Due agents and connecting roads..... 23,057 49 Total Liabilities \$333,425 15

Balance of Assets \$15,492 10

The expenditures for Improvement account the Total stock and bonds \$7,619,340 past year, although such as are usually charged

to construction account, have been made a charge upon Income account, believing that thereby the interest of stockholders will be better subserved than by increasing the capital account for such The following statement will show some of the reasons for, and the cost of the seve ral expenditures charged to that account:

In the spring of 1857 it was supposed that an additional number of locomotive engines would be required in order to the accommodation of the business of the road the ensuing autumn, and, to provide for such business, an agreement was made with the Detroit Locomotive Works for the manufacture and delivery of four coal burning locomotives, at a specified date. That company failed to complete and deliver them at the time agreed When subsequently completed and offered to this company, their use not then being required, we refused to receive them. Upon a full investi-gation, however, of the subject, during the past year, there appeared equities in the case that demanded a compromise, and it was accordingly decided to receive them at a reduced price agreed upon, and they were purchased for \$38,000.

A large amount of expense has annually been incurred in maintaining that part of the track between Mendota and Galesburg, a distance of eighty miles, for the reason that no material suitable for ballasting had been found in quantities sufficiently large near the line of the road to be available, and very little of that kind of work had been done. A gravel bed was discovered last fall near the line. about mid-way of this section of the road, which has been purchased, and from which a considerable portion of the track has been ballasted, and the remainder is now being done. The amount expended for this purpose has been \$19,559 94.

The engine house at Aurora has been extended, so as to accommodate eight more engines, at a cost

of \$5,672 97.

Two passenger cars have been altered and fitted up for sleeping cars. Some improvements have been made in the passenger house at Galesburg, which, with some other small improvements amount to \$5,092 35.

This company, with other owners in interest of the Union Track, in Chicago, together with the Michigan Southern and Northern Indiana Railroad company, have purchased the lands necessary to make a permanent business connection with that road where the Union Track crosses it. The amount that it will be necessary for this company to contribute (after disposing of some of the lands necessarily bought, but not required for the tracks) will be about three thousand dollars; eighteen hundred of which has been paid and charged to

Union Track account.

t

2

6

2

The revenue of the company has been much less the past year than the Directors had expected, or could have anticipated. The causes that have produced these results are too well understood to require particular notice. It will be sufficient to say that the section of country traversed by your line of road, and that tributary to it, has suffered quite as severely the past two years from the failure of the staple articles of production as any other portion of this or the adjoining States. earnings of this, compared with last year, show a falling off of thirty per cent. Twenty-four per cent. of this is on freight, and six per cent. on passenger earnings. The falling off of freight earnings was comparatively greater than those of passengers, being thirty-six per cent. on the former, and twenty-three per cent. on the latter. In the item of wheat and flour the falling off has been forty-five per cent., or equal to one million six hundred and fifty-six thousand bushels-in that of corn it has been twenty-eight per cent., or five hundred and seventy-seven thousand bushels. The amount of lumber transported was about one-half as much as that of the previous year, being a reduction of thirty-five millions of feet.

The preceding statements will show satisfactory

the present depression in the business and earnings of the road can only be transitory, and that a moderate return of prosperity to the country tributary to it, must show again its large productiveness to the stockholders.

Efforts have been made the past year to reduce the expenses of operating the road comparatively with the falling off of receipts, but it has been found impracticable to entirely accomplish this result. The heavy rains of the early summer increased materially the cost of keeping the road in order for several months, and added much to the cost of equipment repairs. That part of the road thus affected has since been graveled, and will not be subject to like expenditures in the future. The operating expenses the past year have been fiftyone and seventy-nine one hundredths per cent. while those of the previous year were forty-six and thirteen one-hundredths per cent. An increased per centage of expenses must necessarily accompany any large falling off in earnings on all well-managed roads. The road and equipment has been kept in good repair and condition, and, with the improvements made the past year, is now more valuable, and in better condition to accommodate a large traffic than at any former period.

The accounts kept the past year of the performance of wood and coal burning locomotives engines, and the fuel consumed, show a saving in expense for fuel in favor of the coal burning engines, of about forty-seven per cent. By examining the accompanying statistics it will be seen that the average cost per mile run of freight engines, using wood for fuel, was nineteen and seven one-hundredths cents per mile; while the cost of running engines with coal for the same service, was ten and sixteen one-hundredths cents, showing a total saving in expense for fuel on 303,496 miles run by freight engines, with coal, of \$27,039 08. From this there is some deduction, probably, to be made for the increased cost of repairs on coal engines, the amount of which has not been fully determin-

Besides the four coal burning engines purchased the past year, six have been changed in re-building from wood to coal, making, with those previously in use, twenty-five exclusively coal burning engines now in service.

Two way freight and conductors' cars have been added; two coal cars have been changed to platform freight, and one baggage car has been exchanged for two platform cars. The equipment of locomotive engines and cars is as follows

62 locomotive engines.

27 first class passenger cars. 4 second class passenger cars.

9 baggage, mail and express cars. 761 house freight cars.

19 way freight and conductors' cars.

125 platform freight cars.

38 coal freight cars.

38 hand cars.

In order to the proper transaction of our ferry business, at Burlington, it became necessary to provide a ferry boat of our own, or have one that could be put in the service on short notice; accordingly a suitable boat was purchased for this business. Subsequently, satisfactorily arrange-ments were made with the ferry company for doing the ferrying of the line at that place for another year.

Efforts were made to charter a suitable boat, at a fair rate, to transact the business of our line between Quincy and Hannibal, in connection with the Hannibal and St. Joseph Railroad, on the opening of that road for business, but without suc-It then became necessary for our company to purchase a boat and place in that service in order to secure the benefits of a proper connection with that road. The Burlington ferry boat was used in that trade until a more suitable boat was obtained, and its use has been continued, as occareasons for the diminished earnings of the past sion required, in the freighting business of the year. Any one acquainted with the fertility of line. These boats cost about ten thousand dollars the country tributary to our line of road, and the each, or, in the aggragate, \$20,479.32. Satisfac-

dinary production and progress, will know that parties composing portions of the line, that will inure fair returns upon the investment

The negotiations in progress at the time of making the last annual report, for the purchase of that part of the Peoria and Oquawka Railroad west of Galesburg, have not resulted in the purchase of that road, for the reason that the parties in interest could not make a good and sufficient title to the property. This company have contin-ued to operate that part of the road under the lease and agreement previously made with that company. Its operation has been attended with a very large expense, owing to the frailty of its structure, want of fencing, and the incomplete condition of the road, especially that part which crosses the marsh or low bottom lands east of Burlington, the track being so low as to be subject to inundation and washing away on every considera-ble rise of water in the Mississippi river. These expenditures, with the interruption of business and loss of revenue attending it, will continue until the road is placed in proper order and condition, and beyond the reach of the floods of that river. In the present embarrassed state of that company, and the incomplete condition of that road for the purpose of business and revenue, the directors can see now no other way of obtaining the re-payment of their advances to that company but to sell the securities pledged and thereby force their payments. Action in this behalf has been delayed in the hope that some satisfactory arrangement would be made for their payment or satisfaction without resort to these measures.

The notice given by the Galena and Chicago Union Railroad Company for the termination of the amended contract, for the use of their road from Chicago to the Junction, having been withdrawn, that contract will remain in force for two years longer, or until the first of May, 1861. This having been done it was not deemed necessary or expedient to take any steps the past year initiatory to the building of an independent line into Chicago, or changing our present relations with that company. The committee appointed by the stockholders, at the last annual meeting, to investigate and present these interests for their consideration, coinciding in this opinion, have deferred attention to this subject. It will be necessary, however, at some time during the present year, to decide upon the policy to be pursued in order that there may be sufficient time to carry out the views of stockholders before the expiration of the present con-

tract with that company.

The directors have become convinced that, under the embarrassments that continue to surround the Quincy and Chicago Railroad Company, they will not be able to meet their original engagements with this company for the repayment of advances made on their account. The last advances were made with the hope and expectation that some satisfactory arrangement would be made with the Trustees, under the sanction of the bondholders of that road, for compromising and settling the issues that have grown out of the failure of that company to reimburse the sums advanced. The terms of adjustment that were offered by the stockholders, at the r meeting in New York, have been approved by the Trustees and placed before the bondholders of that company for their sanction. If they are fully advised as to the present condition and future prospects of that road they will, undoubtedly, accept of the proposed compro-

JOHN VAN NORTWICK, President.

Memphis, Clarksville and Louisville R. R.

We learn from the Clarksville Jeffersonian that the Commissioner of Railroads has made a final examination of the first thirty miles of this road, and finding the road-bed complete, and fully up to the requirements of the law, has given the necessary certificate to enable the company to draw the State aid, and the President has obtained thereon the \$300,000 of State bonds to which the company is entitled on the portion completed. This puts the company in possession of about \$220,000 of cash means beyond any immediate demands.

W 1

\$581,644; in 1855 \$7,725,572; in 1856 \$8,082,821;

in 1857 \$8,642,044, and in 1858 \$5,564,615.

		erce of Can		2. VALUE OF EXPORTS FROM CANADA.				
gation	n," exhibitin ng 31st Dec.,	g the results 1858, of which	Trade and Navi- for the ten years h five years were the enactment of	Average	1855 1856 1867	1849 1850 1861 1862 1853	A mandam transaction and a contraction transaction transaction to the contraction to the contraction to the contraction to the contraction transaction to the contraction to the contraction to the contraction transaction transaction to the contraction transaction transac	
"Reci	procity"* w	ith the United	d States.)	1st 5 2d 5 10			ears.	
Aver	1854 1856 1856 1857 1858	1849 1850 1851 1852 1853	tingung odd im eld Mediningunga i i ba	years				
1st 5 year 2d 5 " 10 "			Years,	66,568 238,839 161,996		576 357 928	Products of the mine.	
16 22 19	32,9 19,9 24,0 114,8	16,6 26,0	Paying ad va- Q	211,284 504,878 858,081	459,920 456,347 540,113 718,296	23,222 146,052 249,296 297,849 340,003 349,711		
114,052 8,681,961 5,878,007 4	951,198 4 971,470 5 948,979 7 484,491 5 903,668 5	,973,978 2, 185,751 2, 651,062 2, 725,116 3, 084,859 4,	lorem du-	6,563,1 9,825,4 8,194,8	7,947,9 10,019,8 11,780,8 9,447,7	442 063 578 421 981		
035,028 ,915.327 ,475,177	4,764,388 5,929,168 7,548,641 5,588,208 5,801,245	,097,624 ,619,784 ,978,044 ,978,525 ,171,165	Paying speci- S fic duties.	193 897 457 1,912 825 1,405	म्ललल	987 630, 987 687, 516 887, 339 1,183, 020 1,370, 867 833	Animals and	
1,389 9,194 5,292	2,813 10,385 11,991 12,407 8,373	938,8 1,176,6 1,810,6 1,810,6 1,247,8	Entered duty free.	865 504 10 184 7	184 13 059 14 240 8 765 7	273 7 19 4 273 7 19 4 273 7 19 4 273 7 273	animals.	
,956 1,815 513 2,707 235 2 261	,744 3,360, 536 2,216, 767 2,972, 904 2,882, 614 2,106	,801 1,085, ,533 1,528, ,685 1,911, ,851 1,760, ,912 2,790,	On goods pay- ing ad va-	,828,212 ,430,591 ,629,401	030,400 972,276 ,882,825 ,904,400	965 457 854 854	veget, pro-	
409 1 724 1 567 1	637 1 315 1 971 1 267 1 429 1	886 485 763 1,865 1,096 1,096	lorem.	84,346 348,730 216,538	476,077 373,628 398,821 325,376	26,708 26,708 55,127 79,183 140,426 169,749	Manufact'res.	
037,049 ,340,298 188,674	538,368 ,309,467 ,535,911 ,042,784 ,274,960	692,303 934,148 937,998 196,189 824,611	On goods pay- coing specific.	107,010 78,080 92,545	68,563 43,198 121,120 112,538	496 496 887 501 294 984	merch'dise.	
2,852,458 4,048,022 8,450,241	4,899,005 3,525,782 4,508,882 1,3925,051 1,3,381,339	1,778,189 2,462,583 2,949,756 2,947,054 1,114,707	Total duties collected.	7,211,656 10,860,156 9,035,906	11,378,834 11,372,707 12,373,343 8,983,773	5,886,076 5,769,576 7,069,101 6,747,412 10,586,114 10,191,656	Sea ports.	
11,710,641 14,563,055 13,136,848	20,676,429 11,476,015 15,305,869 14,561,884 10,795,077	8,239,660 8,931,872 11,480,403 11,680,974 18,220,296	Sea ports.	5,553,509 12,478,517 9,016,013	12,325 17,222 11,693 12,302	00 00 00 4400	Inland ports.	
8,828,396 23,178,746	19,852,896 24,610,154 28,278,518 28,868,714 18,283,450	3,770,738 8,050,196 9,954,388 8,605,518 13,761,140	Inland ports.	96,181,922 78,263,119 37,222,521	5,518 9,254 9,718 8,154	00 00 00 00 40	United	
503	22,963,3 13,303,4 18,212,9 17,559,0 12,287,0	6,676,0 9,681,9 12,048,1 10,671,1 18,489,1	United King- dom.	12,161 4,708 8,434	3,749 10,803 1	989 183 183 183 1		
264 5,837 160 12,249	30 2,678 60 14,136 34 17,618 925 26,828	11 14,452 13,626 82 13,626 82 5,115 21 8,478	British West Indies.	901,045 ,094,886 ,997,965	,023,447 ,086,041 ,875,329 960,428	466,828 808,776 808,776 9,037,509 812,139 812,139 ,380,465	British North	
426,872 749,888	675,116 865,988 1,032,596 751,888 423,820	195,655 385,620 436,972 480,954 632,661	British North America.	5,534,675 13,700,518 9,617,594	16,787,277 17,979,754 13,206,436 11,980,094	768 160 544 522 882	United States.	
8,088,877 218,985,300	15,533,098 20,828,676 22,704,509 20,224,651 5,635,565	4,971,420 6,594,860 8,365,765 8,477,693 11,782,147	United B States.	135,362 275,354 205,358	420,533 2 263,775 2 266,699 2 240,432 2	6,100 108,281 164,144 188,498 209,791	Other foreign countries.	
565	8 1,355,109 6 1,073,909 6 1,616,736 9 1,616,736 11 868,211 5 732,083	0 167,298 0 865,215 5 570,296 3 651,598 7 1,074,029	Other foreign Countries.	12,765,165 23,338,580 18,051,872	23,703,902 28,595,039 24,066,975 21,285,925	9,310,260 10,679,993 11,298,520 13,005,574 19,530,479	ports.	
7 20,539,037	40,529 36,086 48,584 39,430 29,078	12,010 16,982 21,434 20,286 31,981	Total value of goods imported	1,668,358 1,353,592 1,510,975	219,545 218,078 383,444 743,640	1,362,721 1,281,720 1,666,200 1,050,400 1,050,400 2,480,750	built at Que- bec and ex- ported.	
* The ent inte 854. T	"Reciprocit o operation i he value of i	y Treaty" (18 n Canada on t mports from t	Victoria, cap.I.) he 18th October, he United States	1,110,702 15 2,054,608 26 1,582,655 21	3,265,014 2 2,238,900 3 1,556,205 2 1,443,044 2	8 9 8 8 8 8	20 p. c.	
			as free of duty 854 (11 weeks)	5,54	28,188 32,047 27,006 28,472	111,35 112,94 115,80 23,80	Act To Val	

Journal of Railroad Law.

LIABILITY OF INTERSECTING ROUTES IN THE CAR-RIAGE OF GOODS.

A question comparatively new in relation to the liability of common carriers, has arisen by reason of a peculiarity in modern systems of travel and carriage. It is seldom that one line or company own a route extending more than a hundred and fifty or two hundred miles. But goods, especially in this country of enormous distances, have often to be transported five hundred, or a thousand miles, over two, three, four, or even half a dozen different lines, intersecting with each other. In case of a loss or injury to goods (the danger of which is frequently increased by the numerous reshipments), who is responsible to the owner? Is each line responsible for the carriage of the goods the entire distance, or responsible only for the performance of its own duty? A merchant ships a box of goods on the Erie Railroad for Chicago. They never arrive at the place of their destination, or arrive there only after long delays and injured. To whom is the owner to look for reparation? To the Erie Railroad? But if that road has safely carried the goods to Dunkirk, and there re-shipped them on the lake, it has fulfilled its duty. Must the owner then ascertain where the injury happened, and who is responsible for the neglect? Then every owner must travel with his goods, and trace them at every re-shipment, Justice, it seems, would be thus practically denied him. The question is not free from difficulties, and is, by no means, settled. We give our readers in this and the next week's article, four unreported cases decided at the General Term of the Common Pleas of this City, which throw some light on the question. From these cases the following principles may be deduced:

I. Ordinarily a common carrier is not responsible for injuries to goods occurring after they have passed to the custody of others, and beyond the terminus of his ordinary route.

II. But when a carrier undertakes to carry goods to a specified point for a stipulated price, he is responsible for their safe carriage the entire distance, although the place of their destination is beyond the ordinary terminus of the carrier's route.

III. To render him thus responsible, however, there must be a distinct agreement to carry the goods the entire distance. The mere expression of an opinion by the carrier's agent that they will go through right, is not enough to render the carrier so liable. Nor is the mere acceptances of freight for the entire distance, if the carrier receives it only as agent to pay over to the other carriers.

IV. The owner can, however, in all cases, hold the carrier responsible in whose possession the goods were, and by whose negligence they were injured, although his contract to carry was exclusively with another carrier, who undertook, and received freight for, the carriage of the goods the entire distance.

I. [JOSEPH J. DILLON vs. THE NEW YORK AND ERIE R. R. Co.]

This was an action to recover the value of two half pipes of brandy. They were delivered to the defendants who gave a receipt for them in these

"New York, 13 April, '54. Received of James Auchinclass, in good order, per New York and Eric Railroad, two half pipes of brandy, marked cessary, and what the defendants engaged to do storage, with an auction firm in St. Louis. He of B. H. Campbell, Galena, Ill."

R-

he

on

nd

ny

nd

lly

en

nd

en

In

of

e-

Is

ah

er-

a

20.

n.

ed.

To

ely

ed

ıst

en-

ce

as.

-89

nd

le-

eas

les

si-

we

er-

mu

he

lis.

18

r's

the

of

go

ier

ght

it

old

the

in-

ve-

re-

en-

ND

the

ese

Knox, the owner of the brandy, directed it to be shipped according to the receipt. Before shipping it, he asked the General Freight Agent of the defendants, if it was necessary to have an agent at the terminus of their road, or at Chicago, to receive it of an attache of the road. The agent said it would be unnecessary, the pipes would be shipped right on through. Knox then told him how they were directed, and the agent said that is all that is necessary, they will be forwarded on to you. It further appeared from a written stipulation, entered into upon the trial that the goods were carried by the defendants to Dunkirk, the western terminus of their road, and there, in the usual course of transportation, delivered to a transportation line, or company, connected with the Erie Railroad, and engaged in transporting merchandise from Dunkirk towards the place of the ultimate destination of the goods in question. which re-shipment was according to the custom and usage in respect to the transportation of merchandise.

The opinion of the Court was rendered by

DALY, J .- There was nothing in the evidence to warrant the Court below in finding that the defendants undertook to carry the brandy to the place of destination. They merely engaged to carry it to Dunkirk, the terminus of the road, and to ship it, or forward it, from there by the usual line of conveyance to Galena, the place of destination, and this they did. Their liability as common carriers ceased at Dunkirk, and they then assumed the character of forwarders. (Van Santvoord vs. St. John, 6 Hill 158. Farmers' and Merchants' Bank vs. Champlain Transportation Co., 16, Vorm 62: 18, id. 131. Howe vs. New York and New Haven R. R. Co., 22, Conn. 1. Nulting vs. Connecticut River R. R. Co., 1 Gray, 502. 1 Parsons, on Contracts, Note, p. 661.

In Weed vs. Saratoga and Schenectady R. R. Co., 19 Ward, 534, the two lines were connected together by an agreement between themselves, and the defendants took the pay in advance for the conveyance of the plaintiff and his baggage for the whole distance.

Such was also the case in Hart vs. The Renssalaer and Saratoga R. R. Co., 4 Seld., 37, and in Wilcox vs. Parmlee, 3 Sanf., 610; the defendants agreed in writing, to forward the goods of the plaintiff from New York to Fairport, to the close of the season, at a certain rate per 100 lbs., and the Court, though the word forward was used, held that this was an agreement, in substance, to carry the whole distance for a specified price. In these cases the carrier received, or it was agreed that he should receive the amount paid for transport to the place of destination, and thus having received, or contracted to receive, the full reward, he was bound to perform the entire service. But nothing of the kind appeared in this case. The enquiry made by Knox, showed that he knew that the defendants road terminated at Dunkirk. He merely asked if it would be necessary to have an agent at that place, or at Chicago, to receive the goods, and was told that it would not; that the goods would be "shipped right on through," that they would be forwarded on to him, that the direc-

Nicholas N. Knox, St. Paul, Minnesota Ter., care upon the arrival of the goods at Dunkirk, they did, made diligent efforts to find the consignees, but by delivering them to a transportation line engaged in transporting merchandise from Dunkirk to the place where the goods were directed. The reply to Knox by the freight agent that it would be unnecessary to have an agent to receive the goods at Chicago, that they would be shipped right on through, was as respects anything beyond the terminus of his own road, but the expression of an opinion, or belief, that the goods would be duly forwarded upon arriving at Chicago to the place to which they were destined, and cannot be construed as an engagement, or undertaking, on his part, or behalf of the defendants, to carry them, or to be responsible for the carriage, to the ultimate place of destination. The judgment should be reversed.

> II. ILOUIS KREUDER VS. HENRY H. WOOLCOT AND OTHERS. 1

> In this case the facts are fully stated in the opinion of the Court, which was rendered by DALY, J., and were substantially as follows.

> The firm of W. & B. Lange imported 23 cases of wine. They were taken from the vessel in which they arrived from Europe and were put on board one of the tow-boats of the Swiftsure line. When the cases were delivered on board the towboat, an order on the inspector of the vessel in which they were imported, in these words-

SIR-You will please send No. 44, one case to W. & B. Lange C. W. L. pier 1, N. R.-Nos. 44-63 and 65-67, twenty-three cases to the Swiftsure Line Tow-Boats, foot of Broad street, and hand the receipt to W. & B. LANGE.

was handed to the receiving Clerk of the Swiftsure Line, and he endorsed upon it:

Rec'd on Barge M. Barnes, 23 Boxes. Sept. 6, '55.

Emilie Lange of the firm of W. & B. Lange of St. Louis, Mo., then went to the office of the defendants who are the agents of the Union Transportation line and shipped the wine from New York to St. Louis.

The defendants signed a bill of lading by which they agreed to forward the twenty-three boxes to St. Louis for a certain sum or charge for freight which was specified. E. Lange asked them who was their agent in St. Louis and they told him it was Gilbert Knapp, Jr. When the bill of lading was made out by the defendants it may fairly be presumed that the order and receipt above set forth was produced to them as the receiving clerk of the Swiftsure line testified that the bill of lading is usually made from the cart receipt.

The bill of lading is for twenty-three boxes mdse 44-63 and 65-67. E. Lange testifies that some one in the office put the name of Knapp on the bill and in the margin of the bill is the follow-

"C. W. L." for Metzger & Lange, St. Louis, Mo., care Gilbert Knapp, Jr., St. Louis.

The boxes were shipped on the 7th of Sept. 1853, and in the fall of that year they were received and shipped by Geo. M. How of La Salle, Illinois, on board the steamer Excelsior plying on the Illinois river, and were brought by that boat to St. Louis. As the captain of the boat could New York, nor to whom they were shipped in tions that were on the goods were all that were nethree letters C. W. I., the captain placed them on not satisfied to carry them thus marked, they

without success and then had them advertised for one month in a newspaper published in English in St. Louis, after which he advertised them for another month in a newspaper published in German in the same place, and no one appearing to claim them, they were sold at public auction to pay freight and charges.

W. & B. Lange sent the bill of lading received by them to E. Lange of the firm of Lange & Metzger in St. Louis, and E. Lange called several times on Gilbert Knapp Jr., in St. Louis, but learnt nothing of the goods. On the 31st of December, 1853, Knapp's clerk gave him a memorandum to the effect the boxes had arrived, and Lange transmitted it to W. & B. Lange, the consignors. After Lange had called upon him, Knapp made inquiries in relation to the boxes and ascertained that they had been sold and the proceeds after deducting the charges of the auctioneer, had been paid to the owner of the steamer that brought them to St. Louis. The plaintiff is the assignee of W. & B. Lange.

Upon this statement of facts, there can be no doubt of the plaintiff's right to recover. The agreement in the bill of lading to forward the goods from New York to St. Louis and the specification in the bill of lading of the amount of freight for the whole distance, show that the defendants undertook as common carriers to deliver the goods in St. Louis. Wilcox vs. Parmlee, 3 Sanf. S.C. 610. Weed vs. the Saratoga and Schenectady R. R. Co., 19 Wend. 534. Hart vs. the Rensselaer and Saratoga R. R. Co., 4 Seld. 37. The defendants were not forwarders but carriers. A simple engagement to forward goods at New York marked for a particular destination, is discharged by shipping the goods by the usual or most direct conveyance to the place designated, but an agreement to forward them from New York to the place of destination, the charge for freight for the whole distance being specified in the agreement, is very different. It is an agreement to carry them for that distance or to be responsible for that distance for the safe carriage and delivery at the place designated in the agree-

The defendants told the shippers that Gilbert Knapp Jr., was their agent at St. Louis, and from their own testimony it appears that they were in the habit of consigning freight to him; by putting his name in the bill of lading they made him the immediate consignee at St. Louis, and they told E. Large to call upon him at St. Louis to hear about the goods. Lange did so and did all that was incumbent upon the shipper to do. It was the duty of the defendants to see that the goods were duly delivered to Knapp at St. Louis or at least to have advised him in time that the goods were shipped to his care. If they had so advised it may fairly be presumed that the goods would not have been sold for the payment of charges. They engaged to carry the goods as they were marked. The initials C. W. L. in the margin of the bill of lading are placed between quotation marks sufficiently indicating the mark upon the not ascertain by whom they were shipped from goods, and that the defendants knew that they were not marked to Lange & Metzger or to the St. Louis, for the only mark upon them was the care of G. Knapp, Jr. If the defendants were should have said so. They, therefore, engaged to carry the boxes marked as they were and deliver them to Knapp at St. Louis, and having failed to do so are liable for the value of the goods.

The judgment should be affirmed.

Summary of the Performance and Cost of
Locomotive Engines on the Baltimore and
Ohio Railroad for June, 1859.
FIRST DIVISION.—No. of passenger engines. Average number of miles run by each engine 2,499
Miles run to one cord wood, (lighting fires) 1,304 " quart of oil
Pounds of coal consumed per mile run 20.3
Cost of repairs per mile run 3.6c.
" fuel " " 2.5c.
" stores " " 0.5c.

No of	tonnage er		s (ine	eludir	g sv	vito	hi	ng	0.00
	ines)								
Avera	ge No. of m	iles 1	un b	y eac	h en	gin	e.		1,625
Miles	run to one	cord	wood	(lig	hting	g fi	res).	611
				1					
Pound	s of coal co	nsun	ied p	er mi	le ru	ın.			54.9
Cost o	f repairs pe	er mi	le ru	n					8.4c.
66	fuel	66	66						7.5c.
1.1	stores	66	66						0.8c.
	Total cost	66	66						16.7c.

DECOUL	TATATION	740	O. O.	A COUNTY T	a had on a	2000	m 222000	
Averag	e No. of	miles	run l	y eac	h er	ngit	1e	2,96
Miles r	un to on	e cord	wood	(ligh	nting	g fi	res).	62
46	66	quar						
Pounds	of coal	consun	ed p	er mi	le r	un.		21.
Cost of	repairs	per mi	le ru	n				4.40
66	fuel	66	"					1.90
66	stores	11	6.6					0.50

SECOND DIVISION -No. of passenger engines

Total cost " There are also on this division three wood burning passenger engines; Average No. of miles run by each engine ... 2,161 Cost of repairs per mile run......

. 13	fuel	66	46				6.4c.
No. of	tonnage en	gine	8				. 36
	e No. of m						
Miles 1	un to one o	cord	wood	(ligh	iting	fires)	. 1,065
***							30.0
	of coal co						
Cost of	repairs pe	r m	ile rui	1			7.8c.
66	fuel	66	66				5.2c.
***	stores	66					0.7c.
	Total cost	"					13.7c.

	e No. of m un to one c								
46									27.4
	of coal and								
tities	of each) c	onsum	ed p	er i	mi	le r	un	 	59.9
Cost of	repairs per	r mile	run					 	7.8c.
66	fuel	46	66					 	5.7c.
**	stores	66							0.9c.
	Total cost	66	66						14.4c.

No. of tonnage engines

THIRD DIVISION .- No. of passenger engines

(10 wheel engines, weighing 60,000 lbs.).

No. of	tonnage en	gines					. 36
Averag	e No. of m	iles	run b	y eac	ch en	gine	. 1,098
Miles r	un to one	cord	wood	(ligh	ating	fires).	1,198
**	" (quart	of oi	1			21.0
Pounds	of coal co	nsun	ed p	er mi	le ru	n	91.6
	repairs pe						
46	fuel	66	66				4.6c.
66	stores	44	44				
	Total cost	66	66				

FOURTH DIVISION.—No. of passenger engines	
Average No. of miles run by each engine	2.280
Miles run to one cord wood (lighting fires).	
" quart of oil	
Pounds of coal consumed per mile run	20.5
Cost of repairs per mile run	8.0c.

		consume					
Cost of	repairs	per mile	run				8.0c.
66	fuel	- 61	66				2.5c.
11	stores	66				****	
	Total a	33 4mn	66	306	TOTAL	0 14 CD	11 0-

1	here	18	also	upon	this	division	one	wood	
	burn	ing	pass	senger	engi	ne;			
1	\verag	e l	Vo. of	f miles	run	by each	engi	ne	3.0
						un			7.5

Wierage Mo. 31						
Cost of repairs	per mile	run			 	 7.5
fuel	TO BULL	£€ .			 	 5.0
No. of tonnage	engines .	old a	73.00	- 40		4 3

1	Average	e No. of	miles r	un b	y eac	h eng	gine	1,036
	Miles r	un to on	e cord	wood	(ligh	ting	fires).	488
	41		quart	of of	il			22.8
1	Pounds	of coal	consum	ed p	er mi	le ru	n	54.5
1	Cost of	repairs	per mil	e ru	n			9.8c
1	66	fuel	* 66	66				3.8c
	66	stores	66	66				1.1c

Total cost " Note.-Cost of repairs includes the cleaning of

The United States Patent Office-Sketch of its History.

(From the Constitution.)

To the student in pursuit of knowledge upon any branch of science and invention there is no museum or collection of material in this country at all to compare with that so beautifully and artistically arranged in the spacious halls and galleries of the Patent Office. Like the other institutions of the Federal Government, the growth of this office has increased with the development of the resources and rapid expansion of the power and population of the Republic. A glance at its history shows that such an establishment early attracted the attention of the wise and able men of the revolutionary era. Hence we find that, on the 10th of April, 1790, Congress passed an act authorizing the Secretary of State, the Secretary of War, and the Attorney-General, or any two of them, to grant patents for such new inventions and discoveries as they should deem sufficiently useful and important. This act, which originated the Patent Office, was repealed, and a new act passed on the 21st of February, 1793. Under this latter act, patents were confined to the citizens of the United States, and they were to be granted by the Secretary of State, subject to the revision of the Attorney-General. By the act of the 17th of April, 1800, the privilege of suing out a patent was extended to aliens of two years' residence in the United States, and the act of July 13, 1832, only required the alien to be a resident at the time of his application for a patent, and to have declared his intention, according to law, to become a citizen. By the act of Congress of July 4, 1836, all former laws on the subject were repealed, and the patent system re-enacted with important improvements, embodying a new organization of the office, and conferring upon it much more extensive powers than it had heretofore possessed. Under this act the establishment was organized essentially as it exists at this day, except that by subsequent acts the power of appeal was allowed from the decision of the Commissioner to either of the judges of the Circuit Court of the District of Columbia. The Patent Office oc-cupied a part of the General Post Office building, which was destroyed by fire on the 15th of December, 1836. All its invaluable contents were lost by this sad accident; and by the act of 3d of March, 1837, Congress provided for the recording anew of patents, and assignments of patents recorded prior to the date of the conflagration, and for issuing new patents for those destroyed. The officers of the Patent Office were also directed to procure duplicates of the most interesting models destroyed, at an expense not exceeding \$100,000. The loss of the Patent Office, or rather of its contents, caused a deep sensation throughout the country, and universal regret was expressed on all hands at this untoward event. Even the ruthless Admiral Cockburn, who fired the Capitol and President's House, and other public edifices in this city, had spared the Patent Office, and yet accident in a few hours, destroyed the labors of many men for many years, which even that modern barbarian feared to touch.

This sketch of the legislation of Congress on the subject of patents, familiar as it is to the professional man, may give to the general reader an idea of the early and continuous importance attached by the law-makers to this important branch of the 15 Government. Growing out of, and forming as it 5c. were an integral portion of, the patent system is horse railroads in the control of the patent system is horse railroads in the control of tracks will be down and jurisprudence. The minds of the most eminent of S. R. R. & M. Reg.

our jurists, both on the bench and at the bar, have been taxed to the utmost by the intricacy and subtlety of the investigations of many cases which have arisen and been adjudicated upon under these laws. A legal writer justly terms the patent-law branch of our jurisprudence "the metaphysics of the law." And so it must continue to be, and to increase, because of the increasing spirit of improvement in agriculture, and manufactures, and machinery, both here and in Europe. The Patent Office is essentially and necessarily a national institution in every sense of the word, and will always remain, inasmuch as it would be impracticable for the States separately to make provision for the effectual protection of the rights secured to inventors under the patent laws.

All parties concerned in patents, whether as inventors or users of the machines for which they are granted, are fully aware of the importance of the faithful execution and enforcement of the patent laws; and there is no class of cases tried in our courts in which the community generally take

more interest.

In all countries, and in all ages, inventors or discoverers of any new agent or implement useful to man in his varied pursuits, have been considered as among the most valuable citizens of the State, and deserving of its encouragement and protection. Of late years this appreciation of such men seems greatly to have increased, both in the United States and in Europe. We trust that it will ever be so, and that worth and merit, in whatever walk of life it may develop itself, may always meet with recompense and reward.

Cambria Railroad Iron-Street Rails for Passenger Railroads in Western Cities.

Wood, Morrell & Co., lessees of the Cambria Iron Works, during the twelvemonth beginning July 1, 1858, and ending June 30, 1859, manufac-tured 28,872 tons of iron rails. This large quantiwas all made to order, for railroad companies in the West and South-western States, except a portion used by the Pennsylvania Railroad Company, in their tracks at Altoona, and elsewhere in the vicinity of the Alleghany mountain, where the character of the service performed requires that the rails shall be of the best and most enduring quality of iron.

The geographical position of the Cambria Iron Works, at Johnstown, at the base of the western slope of the Alleghany mountain-whence a line of canal via the river route, and a line of railroad via Greensburg, opens two outlets to free river navigation at Pittsburg, whence by steamboat rails can be delivered at all points on the navigable waters of the West, and by car to all inland places not accessible by water craft—enables the lessees to send their excellent rails into a vast market, upon terms mutually advantageous to the railroad companies and the iron-masters.

The reputation of Cambria rails is unsurpassed; and this fact considered in connection with the mineral resources of the immense landed estate belonging to the Cambria Iron Company, abounding with coal and ore, renders it certain that, under the efficient management of the present lessees, the Cambria Iron Works will continue to acquire new importance, and fill orders in larger amount from

For the supply of street rails for city passenger railroads in Western cities, Wood, Morrell & Co. possess unequaled facilities. And a knowledge of this truth prompted us, months ago, to allude to this new source whence orders for Cambria rails would be forthcoming. It, therefore, gives us pleasure to announce that a contract has been enered into with the lessees for street rails for the Pittsburg City Passenger Railroad; and soon, we have no doubt, other contracts will be made for street rails to be laid down in Cincinnati, Louis-ville, St. Louis, Chicago, New Orleans, and other cities. Everywhere in the cities of the West and South, is public attention called to the matter of horse railroads in the public streets, and soon the tracks will be down and the cars in motion.-

The Louisville and Nashville Railroad Company was chartered by the Kentucky Legislature, March 5th, 1850. Its capital stock was fixed by the act of incorporation at \$3,000,000, with the privilege of an increase to \$4,000,000. On the 17th of June of the same year, the City Council of Louisville subscribed for \$1,000,000 of the stock which was ratified by a vote of the people August 23d. On the 4th of September following, the stock books of the Co. were opened, and \$100,000 having been subscribed, a meeting of the stockholders was held September 27th, and seven directors elected. These directors chose L. L. Shreve, first President of the corporation.

t

cs

Q-

at

ŋ

1-

L. L. SHREVE'S ADMINISTRATION.

Mr. Shreve acted as President of the company from September, 1850, to October, 1854. In June, 1851, the City Council made an appropriation of \$1,000 towards surveys for the route of the road. and authorized the employment of L. L. Robinson as engineer. Under this act of the council, Mr. Robinson began the survey at the junction of Broadway and Seventh streets, in August, 1851. On the 8th of December, 1852, the first division of the road was located by resolution of the Board of Directors. On the 13th of April the company contracted with Seymour, Morton & Co., to build the whole road in two and one-half years, and the work of construction was begun the first Monday in May of the same year.

On the 1st of October, 1852, Mr. Shreve made his first annual report to the stockholders. At that time the stock subscriptions of the company amounted to \$1,600,000, and the expenditures to \$24,598.52. On the 1st of October, 1853, he made his second report, showing a stock subscription of \$3,328,700, while the receipts of the Company had been \$146,502 70, and its expenditures \$115,861 His annual report, June 19th, 1854, at a called meeting of the stockholders, showed the receipts of the company to that date to have been \$1,313,-394 43, and its disbursements \$817,179 46.

GOV. HELM'S ADMINISTRATION.

The Hon. John L. Helm was elected President, as successor to Mr. Shreve, October, 1854, and he When his first annual restill holds that position. port was made, October 1st, 1855, the receipts of the company had been \$1,559,562 34, and its expenditures \$921,840 23. The total stock subscriptions were estimated at \$4,034,550 May 30th, 1855. His second annual report, October 1st. 1856, showed the expenditures of the Company to be \$1,467,260 26, and its total available assets were estimated at \$2,422,735 12. These assets included the second million subscribed by Louisville, which, if added to previous stock subscriptions, would make a total of \$5,034,550. His third report, October 1st, 1857, showed total expenditures \$2,589,150 19, and assets \$1,704,502 08. And his fourth and last report, October 1st, 1858, showed total expenditures \$3,834,980 07, and remaining assets \$661,714 51.

MR. GUTHRIE'S ADMINISTRATION.

In the spring of 1857, the Hon. James Guthrie left the Treasury Department of the Federal Government and came home. He was made Vice President of the company, and though nominally occupying this subordinate position, he has really been the head and front of the enterprise. health of Gov. Helm was bad, and physical inability rendered it impossible for him to lead the en-The Vice President has, therefore, been the real President, and the progress of the road since March, 1857, in spite of difficulties insuperable to almost any financial head, has shown the skill and might of Mr. Guthrie.

It will be seen by reference to the estimates, that from the act of incorporation in March, 1850, to March, 1857, a period of seven years, or from the beginning of the work of construction in May, 1852, a period of five years, the company only expended about \$1,500,000 in constructing a road that was to cost \$7,000,000. This mode of building railroads did not suit Mr. Guthrie's go ahead uotions. He went to work, and in spite of the terrible financial crisis of 1857 and 1858, he man-

aged to swell the expenditures to \$2,289,160 19 by October, 1857, and to \$3,384,980 07 by October, 1858. His theory was to spend as much money as he could judiciously use in rushing the road to completion instead of letting it drag along at a snail's gallop until interest and the salaries of officers eat up the assets. He has pushed his theory right ahead with his wonted inflexible and untiring perseverance, using the credit of all the friends he could enlist to raise money, and finally bonding the company and mortgaging the road to the amount of \$2,000,000. He has sold nearly a million and a quarter of these bonds right here at home, and raised money enough to make the early completion of the entire road a fixed fact.

The main road is now being run over by daily trains of cars from Louisville across Green river at Mumfordsville, a distance of 74 miles. At the Nashville end, the cars are running over the whole distance of 71 miles between Bowling Green and Nashville, except nine miles which are now ready for the iron. There are, therefore, 136 miles of the main road, over which the cars are now running, which will leave only forty-eight miles yet to be completed. On these forty-eight miles much the greater part of the work is done, and the cars run over the whole line, from Louisville to Nashville, before the first day of January next. Louisville Courier.

Trade of San Francisco.

We copy the following from the San Francisco Bulletin, giving a resume of the trade of that city for six months ending June 30:

FOREIGN COMMERCE.

From domestic Atlantic ports, Great Britain, France, China and the East Indies, the aggregate tonnage for the first half of each of the three years was as follows:

I	1857,	tons,	first	six	months	 	 83,088
	1858.	tons,	first	six	months	 	 81,020
ĺ	1859,	tons,	first	six	months	 	 126,555

The foregoing shows an increased inward tonnage movement from the principal quarters whence our supplies are derived of more than 52 per cent. the present year over 1857, and nearly 55 per cent. over 1858. A most forcible commentary upon the condition of our overstocked market is afforded by the above data.

These excessive importations are futher illustrated by a comparison of the amount of freight money paid during the same period as follows: Freights paid first six months, 1857...\$1,465,884

Freights paid first six months, 1858... 1,275,816 Freights paid first six months, 1859... 2,355,114

As it is only in exceptional cases that vessels arrive here with anything less than full cargoes, the amount of their tonnage correctly shows the extent of our imports; but our exports are better exhibited by their market values. The following is a comparative statement of the exports, other than treasure, for the first half of each of the last three years:

First	six	months	of	1859.	 	 \$2,324,734
First	six	months	of	1858.	 	 1,795,445
First	six	months	of	1857.	 	 2.072.012

THE QUICKSILVER TRADE.

The exports of quicksilver for the first balf of the last three years were as follows: In 1857, 11,938 flasks; in 1858, 13,452 flasks; 1859, 581 flasks. This immense falling off is solely attributable to the suspension of operations at the New Almaden Works, caused by yet existing litigation as to the proprietorship.

EXPORTS OF GOLD.

The exports of treasure for the first six months of 1859 1858 and 1857 were as follows

	2000 000 2			
First six	months of	1859	 \$28	,685,562
First six	months of	1858	 28	,537,575
	months of			

This shows a remarkable approximation for the periods names, and together with other indications, gives rise to the opinion that the sum total of the present year will be fully up to that of either of the former, if it does not somewhat ex-

ceed them. The annual product of the mines is doubtless as great as ever, but can never be judged of accurately by the exports, as these are governe to a great extent by financial emergencies abroad.

OPERATIONS OF THE MINT.

The deposits of gold bullion at the United States Branch Mint in this city, for the first half of 1859 and 1858 were as follows:

							UZS.
First	six	months	of	1859		 	440,342.87
First	six	months	of	1858		 	663,387.69
							A CONTRACTOR OF THE PARTY OF TH

Falling off: 223,044.82 This large decline the present year is attributa-

ble to the prolonged winter, which prevented operations in many important mining sections till late in the season.

MOVEMENT OF PASSENGERS.

The movement of passengers, arriving and departing by sea, for the next six months of 1859, is denoted as follows: Arrived, 17,034; departed, 11,103; gain, 5,931. During a corresponding period of 1858, owing to the Fraser River exodus, there was a net loss of 202. During a like period of 1857, there was a gain of 4,295. The gain from arrivals by sea for the entire of 1858, notwithstanding the loss adverted to in the first half of the year, was 12,745, which somewhat exceeds the average gain of 1859. The greatly reduced prices of fare, however, which have lately depleted our population, must swell the total gain of the year, since sufficient time has not yet elapsed for us to have experienced its benefits along with its disadvantages.

Railroad Earnings.

The traffic of the Great Western Railway of Canada for the week ending July 15, 1859, was as follows .

ı	MO TOTACHO.					
1	Passengers	 	 		 \$17,999	26
	Freight and live stock	 	 		 7,882	
	Mails and sundries	 	 		 1,515	98
					-	

			-
Total		 \$27,397	91
Corresponding week of last y	ear	 33,904	36

The receipts of the Grand Trunk Railway of

I	Canada	IOL	rne	week	ending	July	9,	
ı	were.						\$39,707	94
ı	Week er	ndin	g July	v 10. 1	1858		38.883	97

	12,000	130
Increase		
Total traffic from July 1st	.\$51,188	41
Same period last year		

The following is a comparative statement of the

earnings of the Northern Central Railway Company for the month of June:

From	1859		1858.		Increa	150.
Merchandise.	\$32,643	98	\$25,983	49	\$6,658	40
Coal	18,091	51	10,883	23	7,208	28
Passengers	19,422	93	16,686	92	2,739	01
Mails	2,425	00	1,437	50	1,037	50
Sundries	84	09	*****		84	09

\$72,667 51 \$55,043 14 \$17,624 87

Eaton and Richmond Railroad.

We learn that substantial improvements have been made upon the line of this road, between Hamilton and Richmond, during the last year, and that the bridge structures and road-bed are to be renewed at various points this season. The Comers Branch culvert, 3 miles below Richmond-80 feet long, with a 20 feet span-is now completed, and is a substantial piece of masonry. All the wooden structures between Eaton and Richmond will be replaced with substantial stone work, The bridge at Somerville is to be rebuilt, and ten thousand

new cross-ties put in, as early as practicable. Two Running Roads by Contract-the Philadelhundred tons of new iron will be laid in the track before the close of September.

American Railroad Journal.

Saturday, July 30, 1859.

Free Passes on the Eric Railroad.

We understand that the cardinal point so long made by this company to grant no free passes, has, like some other of its "rules founded upon principle," gone the way of all the earth. The deadhead system is restored. To what extent we do not care to enquire; but the principle so long contended for by Mr. Moran is completely given up.

Without going into the policy of having a deadhead list, we may say that the thing is considered indispensable, and is practised by our best managed roads. If it has been found politic for the Erie to return to it, it was certainly impolitic to abolish it altogether. This company pertinaciously held on to its position till all the injury was suffered that a mistaken policy could inflict. It now yields, when yielding will gain neither credit nor friends. A disposition to institute radical changes in important affairs ought always to be accompanied by a keen appreciation of their effect; so that an obnoxious point can be receded from before its injurious effects can be felt, and before the moral position of their authors can be weakened. To adhere to them till forced to yield by the pressure of necessity, implies more stubborness than good sense, and more self-will than high principle.

"The American Railway Bureau" and "American Railway Review."

The "American Railway Bureau" is an organization recently established in this city, ostensibly for the purpose of collecting information touching the condition of our railroads; whereof Hon. Myron H. Clark is President, Charles B. Stuart is Consulting Engineer, and Samuel P. Lyman, Secretary. Of these three, Mr. Lyman is probably best known to the public. The "Review" is its organ, though the exact office it is to execute, we have not yet a very clear idea. If these gentlemen propose to spend their time and means in collecting and diffusing information in reference to our railroads, such public spirit and unselfishness cannot be too highly commended.

There is one feature connected with this enterprise, which would seem to interfere somewhat with the entire disinterestedness of the undertaking, and the reliability of the information to be made public. The president of the "Bureau" is busily engaged in bringing out new railway schemes. It is not too much to suppose that he can command for them the endorsement and support both of the "Bureau" and "Review," he furnishing, as we understand, a considerable portion of the capital necessary to their support. We presume we are not uncharitable in supposing that the "Bureau" and "Review" would turn a penny in the same way, should an opportunity offer. In plain truth, we suppose the great object of this enterprise is to put new achemes upon the public instead of warning it against old ones. With such objects in view, it may not be a very safe mentor to railway investors.

phia, Wilmington and Baltimore R. R.

The only railroad in this country in which the contract system has been adopted, is the Philadelphia, Wilmington and Baltimore. The favorable results that have followed this experiment should commend it to the attention of every railroad company in the country, and should secure the adoption of a system in which the amount of compensation is made to depend upon the capability, industry, and faithfulness, of the parties employed. On this road, to quote the report of the President, "nearly all the service, excepting the repairs of bridges, the Treasury department, and that of the conductors and supervising officers, is performed by contract instead of fixed salaries." In commenting upon the change of system, he further says: "Nothing can more effectually secure promptness, energy, and thoroughness, than this system properly carried out in the hands of faithful contractors. Our trains have never been run with so much regularity; our road, cars, and engines, have never been in so good order as now. We do not mean to say that this state of things could not have been brought about under the old system but we are certain it could not have been accomplished as cheaply, and so easily, as under the contract system. Under proper restrictions, it will be one of the most important means to work out a radical improvement in the value of railroad property. Public works rarely succeed under the management of State government, from a want of individual responsibility and pecuniary interest in the success of the work. Private corporations generally succeed better than State governments in the management of public works, because individual care and interest can be better called into action; but even here that keen vigilance in all departments, and particularly in the expenditure stated as follows :of money, which is the true element of success in private business, can rarely be attained. If all the employees of a corporation could be made pecuniarily interested in its safe and economical management, its success would be more certain, extravagant expenditures would be avoided, and accidents much more rare. A proper contract system secures all those important objects, when faithfully carried out by competent men."

We commend this example not only to the directors of the Erie railroad, but to railroad companies and to the stock and bondholders in all our roads. In railway affairs there is no better authority than the gentleman who has inaugurated the contract system; no person of wider or more valuable experience. Let us see what his system has done for his road, and what it cost to operate it in comparison with other lines.

Statement showing the operations of the Philadel-phia, Wilmington and Baltimore R. R. Co. for

	to to
Current Expenses.	Ratio of receipts current e
\$581,335 502,408 456,723	47 55 58
	Expenses. \$581,335 502,408

The current expenses embrace all moneys expended in construction, and sufficient to keep the road in efficient condition.

The statement subjoined will sho 'y in detail the

cost of some of the leading items of service for the three past years:

Years.	N'mber run.	Cost per mile of Locom.rep'rs.	Cost p. mile run.	Total cost of Fuel.	Cost p. mile run.	Cost of Oil and Waste.	Cost p. mile run.
1856	459,976	\$27,282	5.9	91,029	19.8	4,463	.97
1857	429,035	23,174	5.4	68,149	15.8	4,343	1.01
1858	388,670	19,070	4.9	57,395	14.7	2,836	.73

Notwithstanding such results, this road is one of the most expensive to operate and maintain in the United States. Both terminations are in large cities-a fact which always adds largely to the cost of conducting a road. It has much more than the usual number of perishable structures, crossing as it does numerous and wide indentations of the Chesapeake Bay. The continuity of its track is broken by the Susquehanna river, rendering necessary the maintenance of expensive steam ferry boats as well as two distinct sets of engines and cars. With a continuous line, the road is just about of the right length, 98 miles, for running the trains with the greatest economy. Both in Philadelphia and Baltimore the passengers have to be transported, at considerable additional expense, either by steamboats, horse cars, or wagons, to the depots of other roads. Its fuel, which is almost entirely wood, costs high. Almost every circumstance connected with this road is against its being cheaply operated. Till the reforms now introduced were made, the current expenses did bear a very large ratio to the gross receipts. With them, the road now shows more favorable results than any other in the country.

The expenses for the last year, in detail, were

1	stated as follows .—	
ı	UPERATING EXPENSES.	
ı	Repairs of road\$46,849	16
	Do. bridges 13,411	15
7	Do. fences, stations, b'ld'gs, etc. 10,982	87
	Do. locomotives 24,688	37
	Do. passenger & merch'dise cars 16,745	06
-	Expenses of passenger department 56,928	44
	Do. freight 55,598	99
	Gratuities, etc. to employees injured and sundry allowances to parties re- ceiving injuries while crossing the	
		00
r		
•	Taxes and insurance 12,778	
	Law expenses	
ı	Office, salaries, etc	
	Ferries 22,110	
	Rents 6,014	
	Wood and coal for locomotives 57,395	
е	Coal for other purposes	
	Oil, tallow, waste, etc 8.611	67

Misc	ellaneous		•••	15,595	
				394,418	25
Ex	PENDITURES FOR NEW	WORK.			
New	track	38,338	77		
8.6	bridges	409			
46	fences	188	95		
44	locomotives	1,606			
**	baggage cars	2,235			
23	merchandise cars	2,566			
66	stations, build'gs, etc.	2,974			
44	engine house at Bal-	2,011	10		
	timore,,	13,985	33		
	ALL CONTRACTOR OF THE	de dis	. Ewo	62,304	79

Magnetic telegraph

Removing ice and snow

\$456,728 04

103 07

How has such a saving been brought about? The President in his report tells us-"By making employees feel a pecuniary interest in the safe and economical management of the road." This is the simple recipe for such marvelous results. This road is run by contract. It is consequently made the interest of every person employed to reduce expenses to the lowest limit. Yet the President tells us that "the trains have never been run with so much regularity: the roads, engines and cars have never been in such good order as under this contract system." It has restored the finances of the company. It gives the stockholders what they did not get without it, regular dividends. It gave them last year 58 per cent. of the gross earnings of a road, certainly one of the most difficult and expensive to run and maintain in the United States. The Philadelphia, Wilmington & Baltimore, would be an ideal road for many of our railroad managers. In their easy slip-shod, do-nothing way, they could, with a good easy conscience, charge the whole amount of earnings to expenses and think they had done well at that. They would have thought it an ample vindication of themselves to have pointed to the line of the road, with its track at the Susquehanna, cutting off nearly all income from freight; to its numerous bridges; to its expensive termini, and to the great cost it is at in receiving and delivering its passengers. Yet by steady perseverance, and the adoption of a proper system, all these difficulties have not only been overcome, but the road rendered one of the most productive in its receipts, of any in the country.

Now that the subject of placing the working of the Erie under a similar system is before the public. we refer the stock and bondholders of this road to the illustration given. We have not been afraid that the correctness of our arguments in favor of a similar system for the Erie, would be controverted in the abstract, but that it would be met by the ordinary argument of the incapable and incredulous, "Oh, this is all very fine to talk about, but it will never work in practice." It has worked in practice, and most favorably. Is not the example set worth trying by the stock and unsecured bondholders of the Erie? As at present conducted, is there a shadow of a chance for them? Yet if the road could be run for 60 cents on the dollar, enough would be realized to pay the interest on the entire debt of the company. Nothing is to be lost by adopting the contract system Much may be gained by it.

Atlanta and West Point Railroad.

The following is a statement of th	e business of
this road for the year ending July 1s	t:
Receipts from passengers From freights From mails	. 161,640 63
Expenditures	\$362,060 98 . 164,701 22
Net profits	.\$197,359 76
Increase, over previous years	in passen- \$34,298 32
In freights	34,766 56
Total	
Total bales cotton	25,503

How Fast Ralls Depreciate, and how much mile. The total amount of all these items is \$36, it Costs to Maintain Road-bed and Super- 450. The cost of labor in adjusting, ditching, in account of the cost of labor in adjusting, ditching, in account of the cost of labor in adjusting account of the cost of labor in adjusting ditching, in account of the cost of labor in adjusting ditching, in account of the cost of labor in adjusting discharge in the cost of labor in the cost of

The annual depreciation of rails, and the cost of keeping up the track, including superstructure, has been made the subject of careful observation on the Philadelphia, Wilmington and Baltimore Railroad, for the purpose of establishing the law, or degree, of their annual depreciation, and, consequently, the amount necessary to be appropriated each year for their maintenance.

Within the past 8 years the iron on this road has been entirely re-laid. With a view of ascertaining its present condition, every bar, during the past year, has been carefully examined by an experienced inspector. The President, in his report, states that the rails manufactured in England, in the early days of railroads, were the best ever manufactured. But as the demand increased on this side, our people were more anxious to get their orders filled than careful about quality. The English manufacturer, taking advantage of our eagerness, and, perhaps, of our mode of payment, sent us iron made from cinder-beds, and from refuse of their manufacturing establishments—much of it not worth the laying down.

Of the iron now on this road, 4,500 tons, manufactured by Bailey Brothers, in 1851-2, turned out to be of superior quality. A careful inspection of this iron, as it now remains on the track, together with an account of the number of bars that have been taken out, shows an annual deterioration of 8 63-100 per cent,-showing a duration of 11 58-100 years. The rails supplied by the Montour company, early in 1851, 1,000 tons, has proved of a very superior quality, exhibiting a durability of 12 65-100 years. That furnished by the same company in 1852, 1,500 tons, proved not to be so good, and exhibits a probable durability of 98-10 years. A lot furnished to this road by Reeves, Abbott & Co., from the Safe Harbor Works, shows a durability of 9 8-10 years. A lot of English iron, purchased of Losh, Wilson & Bell, of New Castle, proved to be the poorest laid on the road, having an average durability of only 4 1-10 years. There are many causes beside the quality of the iron that affect its durability. Iron on a dry and well-ballasted road-bed, with adequate drainage, and with good ties and joint fastenings, and always kept in adjustment, will show a durability twice as great as when laid on a road-bed of common earth, or clay, without the proper drainage, or ties or fastenings.

The Philadelphia, Wilmington and Baltimore Railroad now use American iron exclusively, either from the Montour Mills, or from Reeves, Buck & Co., and weighing only 50 lbs. to the yard. Light rails require a more perfect drainage, better joint fastenings, and about 25 per cent. more of ties. With these conditions, the President, in his report, expresses the opinion that the rails will prove as durable as those weighing 65 lbs. to the yard. He estimates the durability of rails, based upon the experience of his road, at 10 years. This will require for this road, 100 miles long, 800 tons of new rails annually, which can be had in an exchange for the old at \$20 per ton. The average life of a cross-tie is estimated at 7 years. The number annually required on this road, with the light rail, is 35,000, costing 271/2 cents each. The cost of relaying is estimated at \$400 per mile. The fastening spikes, castings, and switches, at \$600 per

mile. The total amount of all these items is \$36,-450. The cost of labor in adjusting, ditching, inspecting track, is estimated at \$250 per mile for the whole road, making a total annual expenditure for the perpetual maintenance of track in a high state of efficiency, \$61,420, equal to \$614.50 per mile, annually,

Of course the degree of wear of track on any road must depend upon the number and weight of trains. The average number of miles run by the trains on the Philadelphia, Wilmington and Baltimore Railroad, is 425,000. The cost, per mile consequently, for maintenance of road-bed and superstructure, would be 14.45 cents per mile run.

Changes on the New York & Eric Railroad.

The daily papers are filled with rumors of changes on the New York and Erie Railroad. Mr. Sloan of the Hudson River, and Mr. Campbell of the Harlem have been named in connection with the presidency of the Erie. Whether these are anything more than rumors we are unable to say. We presume the names of Mr. Sloan and Mr. Campbell have been used without any authority from these gentlemen. We do not suppose it probable that any important changes will take place on the Erie till the annual election of directors, which comes off about two months hence. At that time we presume radical changes will be made.

Keokuk, Mt. Pleasant and Mussatine R. R. The report of this company under date of June

The report of this company under date of June 1, 1859, gives the following statement of the receipts and disbursements of this road to that date:

RECEIPTS.		
From capital stock:		A. A
Keokuk City bonds	100,000	00
Lee County bonds	150,000	00
Mt. Pleasant City bonds	50,000	
Henry County bonds		
Lonisia County bonds (to be issued).	50 000	
West Point Town bonds " .	10,000	
Individual subscription	88,216	
Bills payable, (due 1867)	6,000	
Bills payable	300	
Mortgage bonds	414,000	00
Amounts to the credit of sundry per-	T June 19	-
sons, being claims for settlement on		
final account	18,289	08
Transferable and preliminary certifi's.	1,572	
Stock due contractors on estimates	15,104	00
Domestic bonds	3,000	00
Income account	16,186	30
41	000 000	AND I

Income account	16,186	30
\$1,	022,668	47
DISBURSEMENTS.		47
Construction account, which includes	ames n. I	
engineering, superstructure, grading		118
bridging, rolling stock, discount on		Sure
bonds, &c	741,703	18
Salaries of officers	4,000	00
Real estate	16,780	00
Right of way	14,906	16
Balance on hand	245,329	13
\$1,	022,608	47
The balance of \$245,329 13 consists	of:	
Bills receivable	\$400	10

Amounts to debt of sundry persons, bonds on hand and to be issued ... 219,482 57 Subscriptions in arrears 25,446 46

\$245,329 13

The road is under contract to be completed to Mt. Pleasant by Dec. 1860, and to Columbus at the point of junction with Muscatine and Oskaloosa Railroad, by 1862.

The directors are Ralph P. Lowe, William Pat-

terson, Charles Parsons, D. W. Kilbourne, Smith Hamill, J. M. Shelly, Keokuk; C. N. McDowell, John B. Lash, Robert Wilson, Laurin Dewey, Mt. Pleasant; Francis Springer, Columbus City.

OFFICERS.

LAURIN DEWEY, President; JOHN W. OGDEN, Secretary and Treasurer; Guy WELLS, Engineer.

Tredegar Iron Works.

We invite attention to the advertisement of Messrs. J. R. Anderson & Co., in another column. Since the destruction of their spike and bolt factory in April last, they have erected on the spot a large and well-adapted new brick building supplied with the most modern and improved machinery and to such effect that they can turn out twenty-five tons of spikes and five tons of bolts

Although the spike and bolt manufacture form now, under these vast improvements, an important branch in the Tredegar Iron Works, still this progressive Company are at all times ready to fill in the best style possible, all orders for bar iron of all sizes, railway chairs and spikes, switches, frogs, pumps, bridge bolts, etc., freight cars, with iron or wooden truck, iron and brass castings, of all descriptions, wheels and axles, separate or fitted, locomotives, stationary and portable engines. of any desired power, saw mills, grist mills and sugar mills, cannon of all calibres, iron or brass; also, shot and shells, and every other description of iron work.

The Tredegar Works, well-known all over the Union, give work to more employees than any other establishment in Richmond. The Tredegar Iron Works Company, consists of Messrs. Joseph R. Anderson, John F. Tanner, R. Archer, and R. S. Archer.

Interest and Dividends.

The interest on the First Mortgage Bonds of the Cincinnati, Hamilton and Dayton railroad, now due, will be paid at the office of the Company, at the Sixth-street Depot, or at the Lafayette Bank.

The interest coupons on the 2d Mortgage Bonds of 1861 and Dover extension Bonds of the Harlem road will be paid at the office, corner of Twentysixth street.

The Connecticut River Railroad has declared a dividend of 4 per cent. on the preferred and 21/2 per cent. on the common stock, payable 1st of August next to holders of record July 20th.

The South Shore Railroad (Lake Erie) has declared a semi-annual dividend of 5 per ceut.

The interest coupons on the first mortgage bonds of the Central Railroad of New Jersey, due on the 1st of August, will be paid at the office of the company on that day.

The interest coupons due August 1st, on all classes of bonds of the Michigan Southern and Northern Indiana Railroad Companies, and on the bonds of the Detroit, Monroe and Toledo Railroad Company, will be paid on that day at the Corn Exchange Bank.

Cocheso Railroad.

The following gentlemen were elected directors of this road for the current year, at a meeting of the stockholders held at Alton, N. H.: William Hill of North Berwick, President, William Hale, Joseph H. Smith, George Mathewson, Charles W. Woodman of Dover, George M. Herring of Farmington, and John McDuffee of Rochester,

Brooklyn and Jamaica Railroad. The general account of the company is as fol-

GENERAL STATEMENT. The capital stock of the Brooklyn and Jamaica Railroad consists of 6,000 shares at par value of \$50 per share, ...\$300,000 00 equal to.... The company own 303 shares, leaving

outstanding 5,697 shares, equal to. 284,850 00 The total debt of the company amounts (Represented by 85 bonds of \$1,000

71,000 00

37,560 00

each, bearing interest at 7 per cent. semi-annually, payable on the 1st day of June, 1870). The company holds 71 bonds of \$1,000 each, of the Long Island Railroad Company, bearing interest at 6 per cent. semi-annually, payable 1st

January, 1870 ANNUAL STATEMENT.

Total rent to be received this ...\$33,300 00 year Interest on the \$71,000 Long Island Railroad bonds, 6 per cent..... 4,260 00

Interest to be paid on Brooklyn and Jamaica Railroad bonds, \$85,000 at 7 per cent..... .. \$5,950 00 Dividend of 9 per cent. on capital stock, \$284,850.. 25,636 50 Expenses, say 750 00

> Surplus \$5,223 50

Ohio Central Railroad.

This road is now in the hands of a receiver. which practically winds it up as far as the stock and bondholders are concerned. If it pays expenses and salaries, and keeps itself in repair, this is all that can be expected from it.

The first report of the receiver gives the following result:

RECEIPTS.

Balance on hand May 1st......\$2,813 99 Freight 9,015 82 Express 473 20 do. do. Do. Express Total receipts......\$52,648 72

EXPENDITURES.

Road department \$1,781 76 Transportation department..... 3,303 19 Material for shops..... 3,676 69 Wood 2,308 58 Balances due connecting roads 7,061 Taxes 1,000 00 Legal expenses..... 48 06 Pay roll 24,050 00

\$13,229 00 showing a balance of \$9.419.

The uncollected revenues for May are as follows :-

Due from other roads on freight acc't .. \$5,069 05 Do. station agents on do. Do. other roads on passenger acc't 4,016 46 do. Do. station agents on 2,353 99 Do. conductors on do. 182 56 Do. other roads on do. estimated 2,639 76 express earnings 58 39 one month mail transportation 2,297 91 Do.

> Total \$24,991 94 INVENTORY OF PROPERTY.

The receiver's inventory of property and assets of the road includes a detailed statement of sustained by reason of the great freshet of last

ength of track, stations, dwellings, lands, workshops, tools, etc., together with the following recapitulation of the road stock:

Number of locomotives 40 Do. Do. Do. freight do. 469

Of the engines, 13 are coal burners and 27 wood; 11 are denominated first class freight; 18 second; 2 third, and 9 first class passenger. Of the total number, 23 are reported in good running order; 13 need repairs, and 4 need re building. Of the passenger cars, 12 are reported in good order, 8 in fair order, 2 being re-painted, and 6 need re-building.

Wabash Valley Railroad.

Subjoined will be found a circular just issued by this company. We take it that Mr. Boody acts upon the idea that the owners of the road being the bondholders, can better forego their interest for a few months than raise money by ex travagant rates of interest to pay themselves.

OFFICE TOLEDO & WABASH RAILWAY Co., No. 54 Exchange Place, New York, July 27, 1859.

The semi-annual interest on the First Mortgage Bonds of this Company, accruing on the 1st proximo, will not be paid on maturity, the company asking a temporary indulgence therefor for a period of three or four months. The annexed exhibit indicates the gross earnings of the road during the twelve months ending June 30, viz :-

July \$75,866 48		
August112,341 87	Feb'y 39,750	88
September . 103,491 14	March 61,724	34
October 96,063 57	April 68,918	26
November 63,517 39	May 60,068	24
December 41,503 46	June 58,481	23

Total......\$820.778 96 Actual operating expenses for the same period 406,250 56

Balance \$414,528 40

One year's interest on the entire bonds of the company is, to wit: First mortgage, \$3,400,000..\$238,000 Second do. 2,500,000.. 175,000

413,000 00

Balance \$1,528 40 From the foregoing statement it appears that notwithstanding the pervading stagnation of busi-ness and stringency of money affairs at the West, coupled with three successive seasons of short crops, the revenues derived from the road have proved amply sufficient to defray all operating expenses, and also to meet the entire interest on the bonded indebtedness of the company. It may, therefore, be regarded as demonstrated that a degree of material and financial strength and capacity inheres in the road, sufficient not only to prove it to be self-sustaining, but rewarding and remunerative to its owners, and that too under the

usual disadvantages above mentioned. The present inability of the company to promptly meet the August dividend of interest arises from the necessity of employing the means usually applicable thereto to other and indispensable objects. During the past year it was found essential to the successful operation of the road to increase its equipment of power and rolling machinery. Accordingly locomotives and cars were purchased to the extent of \$115,000; within the same period expenditures of some \$45,000 were made in graveling and fencing the road, and building grain warehouses, and superadded thereto were expenses of \$25,000 incident to carrying to successful consummation the recent compromise arrangement entered into between the various classes of creditors of the company. The extraordinary damages

season, by which the company lost one of its largest bridges, besides numerous culverts and other extensive structures, required an outlay of \$40,000 to restore the road to its original usefulness. These large expenditures, not likely to occur again, aggregating \$225,000, were made directly from the monthly earnings of the road, and indicate the occasion of the temporary indulgence now sought of the first bondholders.

The present and future prospects of the road were never more hopeful and encouraging. A very large crop of wheat, of unusually excellent quali-ty, has been recently harvested throughout the Wabash Valley, and the yield of corn promises to be very abundant. Other elements of ad-vantage and prosperity will soon be secured by the completion and opening of two important lines of tributary railways. The Logansport, Peoria and Burlington Railroad is in a forward state, the iron and superstructure is now being laid, and it is expected that it will be ready for the passage of trains early in November next. The completion of this great trunk line gives the shortest and most practicable route from Burlington and Central Iowa to all eastern States, and will draw a vast traffic upon the road of this company from one of the most extensive and richest sections of country in the West. During the present season, the Quincy and Palmyra Railroad will be in successful operation, thus filling up the only remaining link of rail communication to St. Joseph. Missouri. The completion of these great works, combined with the large incoming crops, and unmistakeable indications of a general revival of business at the West, furnish substantial grounds for confidence in the future success of the road, and the belief that the interest now deferred will be promptly met at the date heretofore named. Those parties holding coupons maturing on the first prox. will be allowed interest for the period thereafter held. A. BOODY, President.

Verdict of the Jury on the Michigan Southern Railroad Disaster.

R

6

10

at

18

to

nd

96

t

es

u-

le

n-

n-

r-

ne

in

n-

nt

We find in the South Bend Register a portion of the verdict of the Jury empanelled in the Michigan Southern Railroad disaster case at Mishawakie. After detailing the particulars of the case, the Jury say :

"That they are of the opinion that the embankment and culvert at the place were well and substantially built, but the culvert was not of sufficient size and capacity to carry off the water safely in time of a flood, and liable to be obstructed by drift wood, rails, trees, &c. That said culvert was $4\frac{1}{2}$ feet wide, and $6\frac{1}{2}$ feet high, and should have been as large again.

"The Jury further, upon their oaths, say that the foreman, Dennis Kane, was guilty of wilful neglect of duty in not examining the track on and over the embankment, after the storm on the night before the time for the arrival of the train, in ac cordance with the instructions and regulations of the managers of the road."

The Jury was composed of the most eminent citizens of that locality, and they devoted five days to a careful investigation of all the circumstances in the case.

Maryland and Delaware Railroad.

It is stated that a conditional contract has been entered into with a responsible party for the completion of this road, and that the probabilities are favorable to an early resumption of the work. Del. Gazette.

South Side Railroad.

The earnings on the South Side Railroad for the nine months ending July 1st, 1859, amounted to \$285,163 69, a gain of 12 per cent., or \$30,723 01, over the receipts of the preceding year.

Chicago, St. Paul and Fond du Lac Railroad.

On the 6th, at Washington, two hundred and eleven thousand acres of land were certified to the State of Wisconsin for the Chicago, St. Paul and Fond du Lac Railroad, under the act of Congress of 1856.

Railroad Iron.
The undersigned have American and Foreign Railroad Iron for sale, deliverable in New York and other war CASWELL & PERKINS, Brokers, 69 Wall st.

Naw York, July 9, 1859.

1m27

Car Wheel Boring Machine FOR \$400.

ONE of Wheeler's best vertical Machines, with over-head pullies and shaftings,—cost \$700. Has been used a short time and is in perfect order, ready for use.
WILLIAMS & PAGE,

44 Water st. Boston.

FREIGHT CARS for SALE.

CARS—Have been run about one year,—viz:
2 long 8-wheel Box Cars,
9 " Platform Cars.

These Cars are made in the best manner, with large axles brakes, Lightner boxes, etc., and will be sold low for cash.

WILLIAMS & PAGE,

26tf

44 Water st., Boston.

RAILROAD IRON.

500 TONS American Rails, Erie pattern, 56 lbs. per yard, for sale at Chicago, also about 250 Tons English Rails same size and weight.

M. K. JESUP & COMP'Y, New York, June, 1859.

44 Exchange Place.

RAILROAD IRON.

WELSH or Staffordshire make, delivered on board at an English port or at a port in the United States.

NORRIS & BROTHER,

And 17 Nassau st., New York.

RAILROAD IRON.

THE undersigned, agents for the manufacturers, are pre pared to make CONTRACTS FOR RAILS delivered free on board at ports in England, or exship at ports in the United States

M. K. JESUP & COMPY,

M. K. JESUP & COMPY,

44 Exchange Place. New York, 1st June. 1859.

RAILROAD IRON.

THE undersigned, Agents for the Manufacturers, are pre-pared to contract to deliver, free on board at shipping ports in England, or at ports of discharge in the United States RAILS OF SUPERIOR QUALITY. and of weight or pattern as may be required.

VOSE, LIVINGSTON & CO., 9 South William st.

RAILROAD IRON.

THE RENSSELAER IRON COMPANY, TROY, N. Y.,

OFFER Rails of their own manufacture deliverable as may be desired by purchasers.

OLD RAILS

change for new, or for re-manufacturing.

JOHN A. GRISWOLD, Agent,

TROY, N. Y.

New York Agency:
BUSSING, CROCKER & DODGE,
33 Cuff St.

RAILROAD IRON.

The Crescent Manufacturing Company.

WHEELING, VA.,

A RF now prepared to execute, at short notice, orders for Rails of any required pattern and weight, and to re-roll old rails, on the most liberal terms Address N. WILKINSON, Sec'y, Str. WHEELING, VA.

RAILROAD IRON.

THE undersigned, Agents for leading Manufacturers in STAFFORDSHIRE and WALES, are prepared to contract for delivery on board ship at Liverpool, or Welsh port.

C. CONGREVE & SON, 13 Cliff st., N. Y.

RAILROAD IRON. WOOD, MORRELL & CO.

HAVING leased the extensive Works of the CAMBRIA IRON COMPANY, situated at Johnstown, Cambria Co., Penna., and purchased all their real estate, are now prepared to execute, at short notice, orders for RAILS of any required pattern or weight, on the most liberal terms.

PHILADELPHIA NORTH PENNA. R. R. BUILDING, No. 407 Walnut st.

RAILROAD IRON.

THE subscriber is prepared to enter into CONTRACTS
FOR RAILS delivered at an English port or at a port
in the United States,

JAMES TINKER, 54 Exchange Place. NEW YORK

Eric Rails, 57 to 58 lbs. pe- yard, on hand in NEW YORK and NEW ORLEANS.

LACKAWANNA IRON AND COAL COMPANY. SCRANTON, LUZERNE CO., PA.

DY the completion of the DELAWARS, LACKAWANYA AND WESTERN RAILROAD, this Company are enabled to obtain the MAGNETIO GRES from the most celebrated mines in New Jersey, which used in combination with their native ares, produce a quality of from not surpassed.

These Works have been greatly enlarged the past year, and are therefore, prepared to execute orders promptly for RAILS, Spikes, and Merchant Iron. They have on hand patterns for T Rails, of the following weights per lineal yard viz —25, 30, 36, 40, 45, 50, 60, 62, and 75 lbs.

Samples of RAILs and MERCHANT IRON may be seen at the office of the Company, 46 Exchange Piace, N.YOKK.

J. H. SCRANTON, President,

Scranton, Pa. or DAVID S. DODGE, Tree 46 Exchange Place, NEW YORK.

RAILROAD IRON.

THE undersigned, having been appointed Agents for Messrs. Bolckow & Vaughan, proprietors of the ESTON, MIDDLESBRO', and WITTON PARK IRON WORKS, YORKSHIRE, ENG. are prepared to contract for the sale of RAILROAD IRON of a superior quality and on the most advantageous

MEAD & BELL, 17 William st., N. Y.

CAST SINDIDI.

Of First Quality and Warranted. BAR, TOOL, DRILL, AND DIE STEEL. LOCOMOTIVE, CAR AND CARRIAGE CAST STEEL. CAR SPRING STEEL,

Far superior to the ordinary kind-FROG PLATES, POINTS.

Saw, File, Cutlery, Rake, Hoe, Axe and Plough Steel. Gun Metal. Wire and Machinery Steel. ORDERS FILLED PROMPTLY AND AT LOW PRICES.

SALTUS & CO., 45 Cliff st., New York.

THE RAILROAD IRON MILL COMPANY, CLEVELAND, OHIO, MANUFACTURERS EXCLUSIVELY OF

RAILROAD IRON.

THIS is a new BOLLING MILL, having been working only eighteen months, and confined to work for roads on this line between Buffalo and Chicago in re-rolling old Rails. The capacity is Forty Tons per day. It is well situated for receiving old Rails, either by Railroad or Lake.

Orders are now solicited From Roads in other sections of the country; and work will be made with New Iron in the heads, if desired.

ALBERT G. SMITH, President of the Incorporation

MORRIS & JONES & CO., IRON MERCHANTS. MARKET AND SIXTEENTH STREETS, PHILADELPHIA.

IRON AND STEEL

BOILER PLATE,
BOILER RIVETS,
CUT NAILS and SPIKES,
PIG IRON, etc.

Having the selling agency of a number of the Rolling Mills, Furnaces and Forges in this State, orders for any description of TRON can be executed.

August 16, 1854.

BEERS' CAST IRON ENDLESS RAIL, FOR CITY RAILROAD.

Patented August 24, 1858, and May 10, 1859.



THIS Road is constructed exclusively of Arons, without tie, string-piece or spike (in paved streets), will wear as long as three successive structures of the Philadelphia class of road; thereby saving not less than \$1,000, yearly, per mile on repairs and relays; now fully tested. Cost from \$6,000 to \$8,000 per mile.

BEERS? "ELASTIC IRON RAIL WAY," FOR LOCOMOTIVE USE.

This structure is strictly independent of the action of frost, indestructible in the character of material, and positively free from undulations; saving 50 per cent. on dead weight of train, 60 per cent. on motive power, and 80 per cent. on repairs; thereby reducing the current expenses of maintaining and operating from \$1,500 to \$2,000 per mile yearly. Cost of track (exclusive of grading) from \$9,000 to \$11,000; out of which \$3,000 will be saved on the first or to equipment, and character of grading. The undersigned is prepared to construct, either Road, in any part of the United States, South America, or Europe; or will furnish the materials only, for any part of the world. For particulars address.

S. A. BEERS, C. E., Brooklyn, N. Y.

A specimen of these Roads may be examined at 55 Liberty st., NEW YORK.

THE FARNLEY IRON



Near LEEDS, Yorkshire, MANUFACTURERS OF LOCOMOTIVE TIRES, TIRE BARS. BOILER PLATES, ETC.

The undersigned are prepared to execute orders for

TIRES,

Manufactured at these celebrated Works,

OF ALL SIZES.

A STOCK CONSTANTLY ON HAND.

The quality of the FARNLEY IRON is precisely the same as that of LOW MOOR and BOWLING, being from the same bed of mineral. For sale, at manufacturer's prices, by

M. K. JESUP & COMP'Y. 44 Exchange Place, New York, SOLE AGENTS for the UNITED STATES and CANADAS.

JOS. R. ANDERSON. JOHN F. TANNER, R. ARCHER, R. S. ARCHER.

IRON TREDEGAR WORKS. RICHMOND, VA.

WE CONTINUE TO MANUFACTURE at these old and extensive Works, from BEST CHARCOAL

METAL—
BAR. IRON OF EVERY SIZE AND SHAPE.
RAILBOAD CHAIRS, VARIOUS PATTERNS,
RAILROAD AND SHIP SPIKES.
TRUCK BOLTS AND FISH BARS,
CAR AND TRUCK-AXLES,
BRIDGE AND OTHER LONG BOLTS,
IRON TRUCKS.
BOX AND PLATFORM CARS,

RAILROAD WHEELS, EITHER FITTED TO AXLES OR SEPARATE CANNON AND PROJECTILES, ALL KINDS. IRON. AND BRASS. CASTINGS, LOCOMOTIVE, STATIONARY AND PORTABLE ENGINES, SW AND GRIST MILLS, SUGAR MILLS AND ENGINES.

Our SPIKE AND BOLT FACTORY, which was destroyed by fire on the 77th April, has been rebuilt on an enlarged scale, and we are now prepared to make 25 tons SPIKES and 5,000 BOLTS per day. Our Customers may now send us their orders with full confidence that they will be always promptly executed.

J. R. ANDERSON & CO.

SANDERSON, BROTHERS & CO., MANUFACTURERS OF THE

CELEBRATED CAST

FOR MAKING SUPERIOR TOOLS.

SHEFFIELD, ENGLAND.

IMPORTERS OF FILES. Armitage's Genuine Mousehole Anvils, etc.

16 CLIFF STREET, NEW YORK.

49 BATTERYMARCH ST., Boston.

516 COMMERCE ST., Philadelphia.
TYLER, DAVIDSON & CO., Cincinnati, O.

RAILROAD IRON.

CONTRACTS for RAILS, at a fixed price or on commis-aion, delivered at an English port, or at a port in the United States, will be made by the undersigned.

THEODORE DEHON. 10 Wall ster near Broadway, N. Y. 500 tons T Rails on hand, 54 to 57 lbs. per lineal yard.

RAILROAD IRON.

THE subscribers. Agents for the Manafacturers, are pre-pared to contract for the delivery of RAM-ROAD IRON at any port in the United States or Canada, or at a shipping port in Wales.

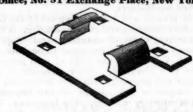
WAINWRIGHT & TAPPAN,
Boston, June, 1851. 29 Central Wharf,

NEW YORK

RAILROAD CHAIR WORKS. J. B. GREEN & CO., Proprietors.

SUCCESSORS TO THE

New York Wrought Iron Railroad Chair Company. Office, No. 51 Exchange Place, New York.





HAVING recently purchased, at Receiver's Sale, all the Patent Rights owned by the late "New York Wrought Iron Rallroad Chair, Company," and also the ontire machinery for manufacturing their improved Wroteght Iron Rallroad Chair, we are now fully prepared to receive and fill all orders from responsible parties, to any extent, with promptness and dispatch.

The thickness of the lips of our chair increases through the bend, where the greatest strength is required, and diminishes towards the edge; so that a less weight of metal may be used, and a strength acquired equal, if not superior, to that of a heavier Chair of uniform thickness.

We invite the attention of parties wishing the best Wrought Iron Chair now in market, to our works for a supply; believing they combine qualities superior to any others now manufactured.

One great advantage possessed by our Chairs over those that are rolled, is that the lips are turned AGAINST Or ACROSS the fibre of the iron; while the lips of a rolled Chair are turned with the fibre—making them liable to break or split as a board.

The Chairs weigh from seven and a-half to fifteen pounds, according to the thickness of the Iron and size of the Chair. To enable us to give you a perfect fit, it will be necessary always to send a section of the Rail properly notched. We cannot undertake to make Chairs without a proper pattern, as it impossible to make a perfect fitting Chair from a drawing. Chairs of our manufacture, are used by the following roads, and by over seventy others, in every part of the country:—North Carolina Railroad Company,

North Garolina Railroad Company,
New Jersey Central Railroad Company,
Panama Railroad Company,
Buffalo and State Line Railroad Company,
New York and New Haven Railroad Company,
New York and New Haven Railroad Company,
New Orleans, Jackson and Great Northern R. R. Co., etc., etc.

YORKSH

Messrs. M. K. JESUP & CO., 44 Exchange Place, NEW YORK, are the only parties authorized to act as our Agents.

Mr. Jacon Rowe, formerly President of the old Com-pany, has no connection, whatever, with our present organiza-tion, nor does he sell chairs of our make.

IRON BOILER FLUES. LAP-WELDED BOILER FLUES,

1½ to 7 inches outside diameter, cut to definite length, 2 to 26 feet as required.

Wrought Iron Welded Tubes, From % to 5 inches bore, with Screw and Socket Connections. T's, L's, Stops, Valves, Flanges, etc., etc. MANUFACTURED AND FOR SALE BY

MORRIS, TASKER & CO., PASCAL IRON WORKS. Established 1821.

WAREHOUSE-209 SOUTH THIRD STREET, PHILADELPHIA.

STEPHEN MORRIS, THOS. T. TASKER, JR.

THE ROUND OAK IRON WORKS, STAFFORDSHIRE, ENGLAND.

Lord WARD, Proprietor.

MANUFACTURE RAILS, BOILER PLATES, SHEETS, HOOPS and BARS, of every variety of pattern.

NORRIS & BROTHER,
Agents for the United States,
12 SOUTH CHARLES STREET,
BALTIMORE.

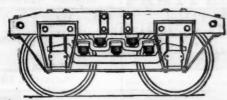
And 17 NASSAU STREET, NEW YORK.

RAILROAD IRON AND COMMON BARS.

THE undersigned, sole Agents to Messrs. Guest & Co., the proprietors of the Dowlais Iron Works, near Cardiff, South wales, are duly authorized to contract for the sale of their G. L. Railroad Iron, and Common Bars, on most advantageous terms.

R. & J. MAKIN, 70 Broad st.

NEW YORK METALLIC CAR SPRING COMPANY,



SOLE MANUFACTURERS OF THE

CONICAL VOLUTE STEEL CAR SPRING,

OFFICE, 54 WILLIAM ST., NEW YORK.

CHAS. D. GIBSON, RICHARD VOSE, Sec'y.

ELASTIC CONE SPRING CO., OFFICES (20 Exchange Place, New York, and Jersey City, New Jersey.



MANUFACTURERS of the PATENT ELASTIC

CONE SPRINGS for Railway Cars. This Spring is
new, and simple in its construction, and possesses superior advantages. It is manufactured from the best quality of India
Rubber prepared under the Joslin Patent, and is less expensive, and at the same time affords more ease, than othershaped
springs. It can be fitted to all descriptions of cars without alterstion or expenses.

JAMES JEFFRIES & SONS.

MANUFACTURERS OF

LOCOMOTIVE, CAR AND TANK

SPRINGS,

PHILADELPHIA, (rear of Girard House.) REFERENCES.

M. W. BALDWIN & CO., R. NORRIS & SON. A. WHIT-NEY & SONS, Philadelphia, JOS. R. ANDERSON, Richmond: SMITH & PERKINS, Alexandria, Va.; JNO. EDGAR THOMSON, of Ponn. R. R., EDWARD C. DALE. of P. G. & N. R.R.; S. RUTH. of Rich. F. & P. R., THOS. DODAMEAD of Va. Central; URIAH WELLS, Petersburg, H. D. BIRD.; South Side R. R., Petersburg, C. O. SANFORD, of Petersburg R. R.; JNO. R. MODANIEL, of Va. & Tenn. R. R.; JAS. P. ROBERTSON, of Wilmington and M. R., HENRY T. PEAKE, of S. C. R. R.; S. SOLOMONS, of North East R. R.; JOHN FLYNN, of Western & Atlantic. R. R.; E. R. GWARTH, of Greenville & Col. R. R.; GEO. YONGE, of Georgia R. R.; WM. CLARK, of Muscogee R. R.; W. W. BALDWIN, of Montgomery & W. P. R. R.; W. M. W. ALDLEY, of N. O., J. & G. N. R. R.; A. B. SEGER, of Opelousas R. R.; C. WILLIAMS, of Vicksburg; ALLEN S. SWEET, of Buffalo and Erie R. R.; F. C. ARMS, of Memphis; H. COFFIN, of Momphis; A. WORREL, of Seaboard & R. R. R.; UNION CAR WORKS, Portsmouth; WM. M. HIGHT, of Augusta; S. & R. H. RIKERS, WHARTON & PATSCH, Charleston, and all Roads where our SPRINGS are in use.

Will be happy to furnish a SET OF SPRINGS to such companies as may wish to try their Durability and Elasticity, by writing us the Length, Width, Curve over all, and the weight which they are to bear.

Patent Reversible Baggage Check



STEEL CAR SPRINGS,



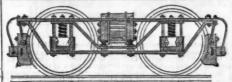
MANUFACTURED

BY THE

PATENTEE, CARLOS FRENCH.

SEYMOUR, CONN.

THESE SPRINGS are now in use on many of the lead-ing Railroads East, South and West. Samples can be examined and Price Lists obtained at No. 5 Gold st., NEW YORK.



THE HUMPHREYSVILLE MANUFACTURING COMPANY,

(SUCCESSORS TO DWIGHTS, FRENCH & CO.) SEYMOUR, CONN.,

ARE prepared to fill, at short notice, of the best materials A and workmanship, orders for Wrought and Cast From Work, fitted ready for use, for the building or repairs of Passenger and Freight Cars, complete or in part. A sample wrought from truck can be seen at our office.

No. 5 Gold St., NEW YORK.

We also manufacture

BEST FAGGOTTED CAR AXLES.
SALISBURY IRON CAR WHEELS,
WROUGHT IRON BOLTS, NUTS AND WASHERS,
BAILROAD JACK SCREWS, ETC.

RAYMOND FRENCH, President, Seymour, Con WM. H. MARSHALL, Treasurer, No. 5 Gold st., N.Y.

SAFEGUARD INSURANCE COMPANY.

OFFICE \ 409 Walnutst., PHILADELPHIA

CAPITAL, \$200,000.

THE SAFEGUARD INSURANCE COMPANY having retired that portion of the Capital Stock which was based upon Securities out of this State, are now prepared to continue the Insurance business, and will insure against loss or damage by Fire, on Houses, Merchandise, Leases and the risks of Inland Navigation, on as favorable terms as other Companies

of Inland Navigation, on as favorable terms as other Companies

Directors.

JACOB N. KELLER,
CHS. F. WATROUS,
WILLIAM FORBES
MATHEW KEILEY.
FRANCIS BLACKBURNE.
JOHN PRENTICE,
HOR, S. B., CUSHING.
FRANCIS BLACKBURNE.
LIHU J. BALDWIN.
J. OSHUA. M. BEAOH.
BENJAMIN F. STILES.
A. C. LAWRENCE.
BENJAMIN F. STILES.
GEORGE H. LEWIS.
JOS. E. STIDFOLD.
JACOB N. KEELER, Pres's. ALBERT WELLES, V. Pres's.

JOURNAL

American Geographical and Statistical SOCIETY.

The Sixth Number of this Journal is now ready.

Subscription Price, \$3.00 per year, or 25 cents per copy Letters relating to the business of the JOURNAL are to be

JOHN H. SCHULTZ & CO., 9 Spruce st., NEW YORK

FINANCIAL.

BANKING and COMMISSION AGENCY. A. G. JAUDON, No. 54 Wall street, NEW YORK.

A GENCIES of a financial nature connected with Railroads
Manufacturing and Commercial Business, and Banking
operations generally, receive special attention.
STOCKS, BONDS, NOTES AND FILLS OF EXCHANGE
BOUGHT and SOLD on orders.

THOMAS GEORGE WALKER.

WALKER & TWEEDIE, 42 PINE STREET, NEW YORK.

Business Paper and Bills of Exchange negotiated.

BONDS, STOCKS and other Securities bought and sold.

W. P. STEELE & CO. BANKERS.

23 WILLIAM STREET, NEW YORK. STOCKS and BONDS Bought and Sold on Commis

Mercantile Paper and Loans negotiated. Advances made on all approved Securities COLLECTIONS MADE throughout the United States ap

CINCINNATI STOCK EXCHANGE.

KIRK & CHEEVER.

Stock Brokers and Kailroad Agents, NO. 83 WEST THIRD STREET

CINCINNATI, OHIO. Railroads Stocks, Bonds, &c., bought and sold on commission Regular sales at public auction at the Munouauta Excusura

R. H. RICKARD. MINING AGENT & STOCK BROKER.

Office No. 21 Nassau st., NEW YORK.

Office No. 21 Nassau st., NEW YORK.
DUYS and sells MINING SHARES, MINES and
MINERAL LANDS on commission, will examine
Mines and Mineral Lands in any part of the United States, and
report on their value, etc., etc.,
REFERSNORS:—P. Chonteau, jr., & Co., New Y rix and St.
Louis, the Hon. Wm. M. Gwin, U. S. Senator, the Hon. O. A.,
Peabody, N. Y. the Hon. Sam F. Butterworth, N. Y., Frost
& Forrest, Com. Mer's, N. Y., John F. Butterworth, Esq., N. Y.,
G. O. Williams & Co., Detroit, Mich., Capt. D. Tyler. No. wich,
Conn., Rittenhouse, Fant & Co., Bankers, Washington, D. O.
Particular attention given to Lake Superior business.

EUGENE THOMSON.

STOCK AUCTIONEER AND BROKER, No. 37 William st., NEW YORK.

No. 37 William St., A.W. YOKKA.

A COTION SALES of STOCKS and BONDS every
A TUESDAY, at 12% o'clock, at the Merchants' Exchange,
RAILROAD BANK, INSURANCE and other SECUBITHES bought and rold at the BROKERS' BOARD, at ParYATE SALE, or at AUGTIOR. All dividends payable in New
York collected, and prompt remittances made.

NORS BUT BORA FIDE QUOTATIONS FURNISHED THE PERSS.
THE MARKET VALUE OF SECURITIES WILL ROT BE SUFRESSED OR ALTERED, AND DECETIVE OF IRRESPOSSIBLE
GATALOGUES WILL NEVER BE 188UED.

A statement showing the cavital, dividend months, and last
semi-annual dividend of the Banks and Insurance Companies of
the city of New York, will be forwarded by mail upon application.

tion.

RYPERROUS.—Messra Wm. and Jno. O'Brien, Thos. Denny & Co., Horace Greeley & Co., Oregin & Co., Tod. & Co., J. & C. Berrian, Geo. F. Nesbitt & Co. Eugene Plunkett, Eq., (President Excelsior Ins. Co.), John G. Storm, Eq., (President Lensus Ins. Co.), L. G. Laving, Eq., (Secretary Niagara Ins. Co.), Marque Spring, Esq., Oiver H. Lee, Eq., John H. Griscom, M. D., Rev. Edwin F. Harfield, D. D., Rov. Theo. L. Cuyler, John Camerdon, Esq., Benj. F. Minierre, Eq., New York; Oit Allen, Esq., Albany N. Y. Messra Gorham & Co., Providence, R. I.

A. H. DYETT. STOCK AND BOND BROKER, No. 43 EXCHANGE PLACE, NEW YORK.

DANKERS and DEALERS in Stocks, Bonds, Exchange and Commercial Paper, on commission, No. 49 Wall street, and 41 William street, NEW YORK.
Orders for the purchase and sale of Stocks and Bonds, at the Brokers' Board, by letter or otherwise, promptly executed.
Onch advanced on sound saleable securities.

G. VAN BAUR & CO., N. V. CONTINENTAL B'K, N. Y.

SIMEON DRAPER, Auctioneer.

By SIMEON DRAPER, OFFICE, No. 36 PINE ST., NEW YORK.

REGULAR AUCTION SALES AT 96 PINE ST., EVERY DAY.

STOCKS and BONDS bought and sold at private sale Sale every day at 1 o'clock. See Catalogue.

DINGEE & HOLDEN, AUCTIONEERS AND REAL ESTATE BROKERS,

No. 9 NASSAU STREET, SOLOMON DINGEE, CHARLES E. HOLDEN, NEW YORK. Stocks, Bonds, Mortgages, & Commercial Paper Bought & Sold.

BEFERENCAS.
N.Y. | Hon. E. D Campbell, Lt. Gov.,
Wis. Citizens' Bank.
Mes ra Thompson Bros. Citizens' Bank. Ankers.

Hon. Judge L rd, La Crose,
Jno. M. L vy, Banker,
Hon. Franklin Steele, Minne

Geo. P. Rogers, Esq., 44

Geo. P. Rogers, Esq., 45

Geo. Bank, Hilmos, Mt. Pieasant, Iowa.

Mt. Pieasant, Iowa.

PETERS, CAMPBELL & CO., BANKERS AND DEALERS IN DOMESTIC EXCHANGE AND BANK NOTES. No. 50 WALL STREET,

NEW YORK.

SPECIAL ATTENTION GIVEN TO COLLECTIONS

IN ALL PARTS OF THE UNITED STATES. PETERS, SPENCE & CO., Lynchburg, Va. DAVID E. SPENCE, D. T. C. PETERS, N. H. CAMPBELL,

JAS. T. SOUTER, Esq., Pres't B'k Republic, New York City American Exchange Bank, Banks and Bankers, Richmond and Lynchburg, Va.

DUNCAN, SHERMAN & CO., BANKERS.

Corner PINE and NASSAU Sts., NEW YORK.

CIRCULAR NOTES AND LETTERS OF CREDIT, FOR TRAVELERS,

AVAILABLE IN ALL THE PRINCIPAL CITIES OF THE WORLD. ALSO, MERCANTILE CREDITS, For use in EUROPE, CHINA, etc.

H MEIGS, Jr. & SMIT'I, BANKERS and BROKERS,

39 WILLIAM STREET, (FIRST BUILDING BELOW WALL STREET.)
STOCKS and BONDS Bought and Sold on Commit MERCANTILE PAPER and LOANS Negotiated. INTEREST ALLOWED ON DEPOSITS. HENRY MEIGS, Jr. WM. ALEX. SMITH. Naw York, May 11, 1858.

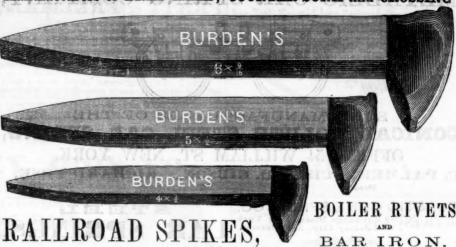
CHAS. A. FISHER,

Late of the firm of PISHER, DENNY & CO.,

No. 18 Exchange Place.
STOUKS and Bonds bought and sold on commit

H. BURDEN & SONS.

Manufacturers of BRAD-HEAD, COUNTER-SUNK and CROSSING

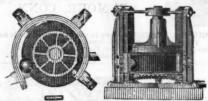


WM. F. BURDEN, Agent,

N. Y. CITY OFFICE, 24 BROADWAY.

邓密仍从 77 74

HENRY BURDEN'S PATENT REVOLVING SHINGLING MACHINE.



THE subscriber having recently purchased the Right of this Machine for the United States, now offers to make transfers of the Right to run said Machine, or sell to those who may be desirous to purchase the Right for one or more of the States. This Machine is now in successful operation in ten or twelve Iron Works in and about the vicinity of Pittsburg, also at Pheenteville, and Reading, Pa., Covington Iron Works, Md., Troy Rolling Mills, and Troy Iron and Nail Factory, Troy, X. Y., where it has given universal satisfaction.

Its advantages over the ordinary Forge Hammer are numerous:

Its advantages over the ordinary rouge manner merous:

Considerable saving in first cost; saving in power; the entire saving in shingler's, or hammerman's wages, as no attendance whatever is necessary.

It being entirely self-acting: saving in time from the quantity of work done, as one machine is capable of working the iron from sixty puddling furnaces; saving of waste, as nothing but the scoria is thrown off, and that most effectually; saving of staffs, as none are used or required.

The time required to furnish a bloom being only about six seconds, the scoria has no time to set, consequently is got rid of much easier than when allowed to congeal, as under the hammer.

hammer.
The iron being discharged from the machine so hot, rolls better and is much easier on the rollers and machinery.
The bars roll sounder, and are much better finished.
The subscriber feels confident that persons who will examine for themselves the machinery in operation, will find it possesses more advantages than have been enumerated.
For further particulars address the subscriber at Trov. N. Y.

P. A. BURDEN.

VULCANIZED RUBBER GOODS, MACHINE BELTING. STEAM & PISTON PACKING, HOSE OF ALL DESCRIPTIONS, SHOE SOLEING,

LACE LEATHER, VALVES, FIRE BUCKETS, ETC.

THE undersigned Wholesale Agents of the BOSTON BELLTING COMPANY, beg to call the attention of DEALERS and JOBBERS to the above mentioned goods, which are conceded by all practical mechanics to be

THE BEST PRODUCED. For list of prices, and a full description of goods, terms, etc., apply to

BRAMHILL & CAMPBELL, 190 William st., near Sprace, NEW YORK.

PARK'S IMPROVED TRACING LINEN.

DRAWING MATERIALS, FOREIGN AND DOMESTIC STATIONERY, PRINTING & LITHOGRAPHING.

> DEVLIN & HAGAN, No. 7 Nassau st., N. Y.

DR. A. MERRIMAN,

DENTIST,
Waverley Place, opposite New York Hotel,
NEW YORK.

PROFESSIONAL CARDS.

Sylvester W. Barnes.
Cnief Engineer Watertown and Madison R.R., Madison, Wis

Alfred W. Craven. Chief Engineer Croton Aqueduct, New York.

Charles W. Copeland, Steam Marine and Railway Engine 122 Broadway, New York.

Davidson, M.O., Chief Engineer Havana Railroad Company HAVANA, CUBA.

C. Floyd-Jones., Division Eng'r 3d and 12th Divisions, Illinois Central R. R., Vandalia, Ill.

Gay, Edward F., Civil Eng'neer, Philadelphia, Pa.

Robert B. Gorsuch, City of Mexico, MEXICO.

James H. Grant, Civil Engineer, Curistiava, Rutherford Co., Tenn.

Theodore D. Judah,

Ohief Engineer, and Commissioner of Francisco and Sacramento Railroad, and of 8000 and Sacramento Northern Extension Railroad, SAN FRANCISCO, Cal.

S. W. Hill, Mining Eng'r and Surveyor, Eagle River, Lake Superior.

Ellwood Morris, Civil Engineer, Franklin Institute, Philadelphia

Mills, John B., Civil Engineer, Lake Ontario and Hudson R. R. R., 20 Exchange Place, N. Y.

Osborne, Richard B.,

W. Milnor Roberts, Civil Engineer, Carlisle, Pa.

> J. S. Sewall, ST. PAUL MINESOTA

Silas Seymour, Consulting Engineer and General Agent, 271 Broadway, N. Y.

Shanly, Walter, Grand Truck Railway, Toronto, Cana

Charles L. Schlatter, Ohlef Engineer Brunswick and Florida Railroad, Brunswick, Georgia.

Charles B. Stuart, Consulting Engineer, 19 Nassau str., New York

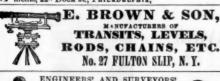
Trautwine, John C., Civil Engineer and Architect, Philadelphia.

A. B. Warford, Chief Engineer, Susquehanna Railroad, Harrisburg Pa.

INSTRUMENTS.

Hugo Harttman,

MANUFACTURER of Engineers' and Surveyors' Instru-ments, 223 Dock st., PHILADELPHIA,





No.22 Pear Street, near Third St.,

below Walnut. below Walnut, PHILADELPHIA.

J. T. Hobby, (formerly SAWYER & HOBBY,) MATHEMATICAL Instrument Maker, at the old stand, 156 Water st., New YORK. 1y33

James Prentice,

66 NASSAU St., N. Y., Manufacturer of Mathematical Instruments of every description. Orders promptly filled.

W. & L. E. Gurley, Troy, N.Y., MANUFACTURERS of Engineers' and Surveyors' Instruments. Descriptive and priced catalogue gratis.

Knox & Shain,

MANUFACTURERS of Engineering & Telegraphic Instru-ments, 46% Walnut st , Phila. (Tree premiums awarded.)

F. W. & R. King, MANUFACTURERS of Engineers', Surveying and Drawing Instruments, No. 226 Baltimore st., Baltimore, Md.

Richard Patten, MANUFACTURER of Mathematical Instruments to the U. S. Government, No. 58 Baltimore st., Baltimore, Md.

James W. Queen & Co., Philad., MANUFACTURERS of Engineers' Levels, Transite Chains, Tapes, &c. Priced catalogues by mail gratis.

Wm. J. Young

HAS removed his Engineering and Surveying Instrument Manfactory to No 43 North Seventh Street, Philadelphia

H. SAWYER

(of the late firm of SAWYER & HOBBY), MANUPACTURER of Transits and Levels, has remote to Union Place, near Wasburton Av. Youkers, N. Y. GEO. M. FREEMAN.

SCCCESSOR TO

PRATT & FREEMAN, PHILADELPHIA RAILWAY SUPPLY AGENCY. No. 123 WALNUT STREET,

PHILADELPHIA.

Railroad Materials, Locomotive and Car Findings, MACHINERY AND MACHINISTS TOOLS, MINERS' TOOLS, ETC. COTTON WASTE. WHITE AND YELLOW CAR GREASE, LOCOMOTIVE BRASS WORK, Baggage Checks, Barrows, etc., etc., RAILROAD LANTERNS, SIGNAL LIGHTS, STEAM GAUGES, COCKS AND WHISTLES, INDIA RUBBER HOSE PACKINGS, ETC. ANTERNS OF ALL DESCRIPTIONS. ENGINE, STATION, AND SIGNAL BELLS,

Superior Car Upholstery, etc. 24 AGENCY OF THE KEROSENE OIL COMPANY. Orders solicited, promptly filled, and forwarded with despatch and care at the manufacturers' lowest prices.

S. B. BOWLES, MANUFACTURER AND DEALER IN

RAILROAD

No. 12 GOLD STREET, NEW YORK.

HOLT, GILSON & CO.,

MANUFACTURERS AND DEALERS

RAILROAD & STEAMBOAT

5 WATER ST., BOSTON. LOCOMOTIVES AND CARS.

Rails, Sleepers, Chairs, Spikes, Wheels, Arles and Tires. BOILER TUBES AND FELTING.

BOLTS, NUTS & WASHERS.

Locomotive, Hand and Ship Lanterns; Car Trimmings of all escriptions. Steam and Water Gauges; Signal Bells, etc., etc., AGENTS FOR CAR HEAD LININGS.

Sole Agents for TOMEY'S celebrated CAUGE GLASSES, and PACKER'S IMPROVED RATCHET DRILL.

Orders filled with despatch and at the lowest prices.

RAILROAD SUPPLIES.

GILBERT, MURDOCK & CO., No. 64 Exchange Place, NEW YORK,

A RE agents for, and prepared to furnish at manufacturers' prices,

RAILROAD IRON. LOCOMOTIVE ENGINES, RAILROAD CARS.

> CAR WHEELS. AXLES, CHAIRS, SPIKES, TOOLS,

All inquiries in reference to the above articles will be ceive immediate attention. NEW YORK, January, 1859.

MORRIS K. JESUP. JOHN KENNEDT. GILBAD A. SMITE.
M. K. JESUP & COMP'Y, RAILWAY AGENTS & BANKERS. 44 EXCHANGE PLACE.

NEW YORK.

AGENTS FOR THE SALE OF Foreign and American Railroad Iron,

AND ALL MATERIALS NECESSARY FOR THE Construction, Equipment & Operating of Railways. RAILWAY AND OTHER SECURITIES

BOUGHT AND SOLD Either privately or at the Board of Brokers.

A. S. & A. G. WHITON 32 PINE ST., NEW YORK, DEALERS IN

RAILROAD IRON. CHAIRS AND SPIKES,

LOCOMOTIVES, PASSENGER AND FREIGHT CARS.

MANUPACTURERS' AGENTS FOR Esiler's Iron Turn Tables, Dimper's Patent Blower, Gardiner's Volute Car Springs and

RAILWAY SUPPLIES GENERALLY.

NEGOTIATORS OF SECURITIES.

A. BRIDGES & CO.,

MANUPACTURERS AND DEALERS IN

RAILROAD AND CAR NDINGS.

OF EVERY DESCRIPTION, 64 COURTLANDT ST., NEW YORK.

RAILROAD AXLES, WHEELS AND CHAIRS, SPIKES, BOLTS,

NUTS, WASHERS,

CAR, SHIP AND BRIDGE BOLTS. IRON FORGINGS OF VARIOUS KINDS, ETC., ETC. STEEL AND RUBBER SPRINGS, LOCOMOTIVE AND HAND LANTERNS, PORTABLE FORGES AND JACK SCREWS, COTTON DUCK FOR CAR COVERS,

Also, Sole Agents for the Manufacturers of Car Head Linings. Orders for the purchase of goods on commission, aside from our regular business, respectfully solicited.

BRASS AND SILVER TRIMMINGS.

ALBERT BRIDGES. JOEL C. LANE.

RAILROAD SUPPLIES.

WILLIAMS & PAGE. No. 44 Water, between Congress and Kilby Streets,

Boston, Mass. Iron Rails, Chairs, & Spikes, FREIGHT AND COAL CARS,

(on hand or made at short notice

Wheels and Axles of all kinds, LOWMOOR, AMES', BOWLING AND NASHUA TIRES, IRON AND STEEL,
Of all kinds for Shops and Tracks.

Car Trimmings, Paints, Oil, Varnish, Car and Switch Locks, Ventilators, Lanterns, Head-Lights, Gauges, Rubber Springs, Chairs, Hose and Beiting, Ash, Pine and other Timher, and ALL MATERIALS USED in Equipment and Repairs of Railroads, Engines and Cars, at lowest prices

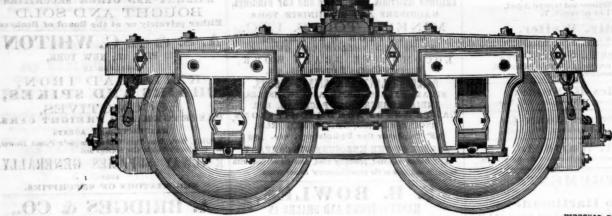
THOS. S. WILLIAMS. PHILIP S. PAGE. Late Sup't Boston & Maine R. R. Late Page, Alden & Co.

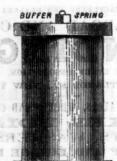
Mew England Car Spring Co.

SOLIE MANUFACTURIERS

OF THE 20







India Rubber Car Springs.

OFFICE, 61 CHAMBERS STREET,

NEW YORK.



FIRST INTRODUCED JULY, 1849. Harlan & Hollingsworth, UNION BAILBOAD CAR WORKS,



A. L. ARCHAMBAULT,

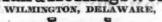
MANUFACTURER OF PORTABLE STEAM HOISTING, AND PUMPING ENGINES,

From 3 to 30 horse-power, and STATIONARY ENGINES, from 3 to 100 horse-power S. E. cor. Fifteenth and Hamilton Sts., PHILADELPHIA.

CAR WORKS



B. LOWE & CO., PALM AND SECOND STREETS ST. LOUIS, MO.





MANUFACTURERS OF ALL KINDS OF

RAILROAD MACHINERY PATEROAD MACHINERY.

PASSENGER CARS of the finest finish, also all kinds of
FREIGHT CARS, DUMPING CARS, HAND CARS,
WHEELS and AXLES, STEEL SPRINGS, and in fact
everything for the full equipment of a road.
From our long experience in Car building, and our
facilities for doing work, we are enabled to give entire satisfaction in every particular.
From our location, and conveniences for shipment, we can supply southern roads with despatch, and
ship at reasonable freights.
We are also extensively engaged in building Iron Vessels and Iron Steam Hoats, Steam Engines and
Bollers, and Machine Work in general. All orders
executed with despatch and on reasonable terms.

THE HARRISBURG CAR COMPANY,

HARRISBURG, PENNA.,

ARE prepared to fill the heaviest orders for Passengers, Mails Bagages, Box, Cattle, Platform, and Coal Cars.

Located in the centre of the Iron, Coal, and Lumber region of Fenney Ivania, having the most improved labor saving machinery, with a large tock of weel I seasoned I umber on hand, and an Eastern Superintendent thoroughly experienced in every department of the passenger and freight car building business, this company can recommend their manufactures as equal to the best Eastern work. This company also cast CHILLED PLATE CAR WHEELS from the best coaled wheel from in the State that are encounted that the cast CHILLED PLATE CAR WHEELS from the best coaled wheel from in the State that are encounted that the cast CHILLED PLATE CAR WHEELS from the best coaled wheel from in the State that are encounted that the cast CHILLED PLATE CAR WHEELS from the best coaled wheel from in the State that are encounted that the company advantages as this. The ecconomy that the company and which they will furnish itsed or united at the content of the superior of Fuel slone from its use soon repays the disclowest prices.

N. B.—Stewart Kerr, Engineer,

the lowest prices.

N. B.—Strong and neat hand cars constantly on hand. WM. T. HILDRUP, ISAAC M'KINLEY, Superintendent. Treasurer.

PORTSMOUTH, VA.

PORTSMOUTH, VA.

PREIGHT, PASENGER, BAGGAGE, EXPRESS, MARKET, COAL, LUMBER and HAND CARS, manufactured at this establishment of the best material, and in the Most approved manner, with either Plate or Spoke Wheels and Axles, of Salisbury or other Iron. Trucks fitted up, or Wheels and axles separately will be furnished at the shortest notice, and shipped to any part of the United States.

Having extensive arrangements and superior facilities for manufacturing at this establishment, orders will be received and contracts made for equipping entire roads at short notice.

G. W. GRICE, Agent.

G. W. GRICE, Agent.

VENTILATION.

THE undersigned has devised and patented the only system of VENTILATION for Buildings, Vessels, RAIL-ROAD CARS, etc., by which spontaneous ventilation can be effectually carried out; and is willing to dispose of the same to parties desirous of purchasing at a reasonable price. Address HENRY RUTTAN, Coburg, Canada.

WEISSENBORN'S PATENT Incrustation Preventer

FOR STEAM BOILERS.

STEWART KERR, Engineer,

Agent, 15 Broadway, NEW YORK.